

0001

1 AFTERNOON SESSION 2:05 P.M.  
2 WEDNESDAY, JANUARY 27, 1999  
3 (THE FOLLOWING PROCEEDINGS WERE HELD IN  
4 THE COURTROOM, IN THE PRESENCE OF THE JURY)  
5 THE COURT: GOOD AFTERNOON, EVERYBODY. MR.  
6 OHLEMEYER, WHAT'S NEXT ON OUR AGENDA?  
7 MR. OHLEMEYER: YES. DR. WILLIAM WARREN,  
8 W-A-R-R-E-N.

9 THE COURT: THE FIRST NAME WILLIAM?  
10 MR. OHLEMEYER: WILLIAM.  
11 THE COURT: OKAY.

12 TESTIMONY OF  
13 WILLIAM HOWARD WARREN, M.D.,  
14 A WITNESS CALLED ON BEHALF OF THE DEFENDANT, HAVING BEEN  
15 DULY SWORN, TESTIFIED AS FOLLOWS:

16 THE CLERK: PLEASE STATE YOUR NAME.  
17 THE WITNESS: WILLIAM HOWARD WARREN.  
18 THE CLERK: PLEASE SPELL YOUR NAME.  
19 THE WITNESS: MY LAST NAME IS W-A-R-R-E-N.  
20 THE CLERK: IS WILLIAM W-I-L-L-I-A-M?  
21 THE WITNESS: CORRECT.  
22 THE CLERK: AND HOWARD IS H-O-W-A-R-D?  
23 THE CLERK: THAT'S CORRECT.  
24 THE CLERK: THANK YOU. PLEASE TAKE THE STAND.

25  
26 DIRECT EXAMINATION  
27 BY MR. OHLEMEYER: Q. GOOD AFTERNOON, DOCTOR.  
28 A. GOOD AFTERNOON.  
JUDITH ANN OSSA, CSR NO. 2310

0002

1 Q. TELL US WHAT YOU DO.  
2 A. I'M A GENERAL THORACIC SURGEON.  
3 Q. AND WHERE DO YOU PRACTICE?  
4 A. I PRACTICE IN CHICAGO AT THREE HOSPITALS. THE  
5 PRIMARY HOSPITAL IS RUSH PRESBYTERIAN AND ST. LUKE'S MEDICAL  
6 CENTER, AND ALSO AT COOK COUNTY HOSPITAL AND WEST SUBURBAN  
7 HOSPITAL MEDICAL CENTER.  
8 Q. WHAT SORT OF --IT'S PROBABLY A BAD QUESTION.  
9 WHAT SORT OF HOSPITALS ARE THOSE? IS THERE ANYTHING UNIQUE  
10 OR DIFFERENT ABOUT ONE COMPARED TO THE OTHER?  
11 A. TWO OF THOSE THREE ARE TEACHING HOSPITALS.  
12 Q. WHAT DOES THAT MEAN?  
13 A. AT RUSH PRESBYTERIAN AND ST. LUKE'S MEDICAL  
14 CENTER, WE HAVE A GENERAL THORACIC AND WE HAVE A  
15 CARDIOVASCULAR TRAINING PROGRAM, WHERE RESIDENTS COME TO  
16 TAKE ADDITIONAL TRAINING IN OPEN HEART AND CHEST SURGERY AND  
17 VASCULAR SURGERY, IN ORDER TO TAKE SPECIAL CERTIFICATION AND  
18 BOARDS IN THOSE FIELDS.  
19 Q. I TAKE IT THORACIC -- T-H-O-R-A-C-I-C --  
20 A. CORRECT.  
21 Q. -- IS A SPECIALTY IN SOME SENSE?  
22 A. YES. THE FIELD OF CHEST SURGERY TODAY IS REALLY  
23 BROKEN DOWN INTO TWO PARTS, CARDIAC AND THE NONCARDIAC.  
24 PRACTICALLY SPEAKING, MANY PROGRAMS DON'T MAKE A  
25 DISTINCTION AND THE SURGEONS DO EVERYTHING. IN MY  
26 INSTITUTION, THE SURGEONS DO EITHER GENERAL THORACIC  
27 SURGERY, THAT IS, EVERYTHING APART FROM THE HEART, OR THEY  
28 SPECIALIZE IN HEART SURGERY. THE TRAINING IS THE SAME AND  
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0003

1 THE EXAMS ARE THE SAME.  
2 I HAVE SUBSPECIALIZED IN CHEST SURGERY AND DO

3 JUST GENERAL THORACIC, WHICH IS PRIMARILY LUNG, CHEST WALL  
4 AND ESOPHAGUS.

5 Q. AS OPPOSED TO HEART SURGERY?

6 A. AS OPPOSED TO HEART SURGERY.

7 Q. CAN YOU DESCRIBE FOR US YOUR FORMAL EDUCATION.

8 A. WELL, I WAS BORN AND RAISED IN CANADA. I WENT TO  
9 THE UNIVERSITY OF TORONTO FOR MY UNDERGRADUATE TRAINING, AND  
10 MY MEDICAL SCHOOL TRAINING WAS IN TORONTO AS WELL.

11 Q. DID YOU DO ANY SORT OF INTERNSHIP OR RESIDENCY  
12 AFTER MEDICAL SCHOOL?

13 A. YES. I DID A STRAIGHT INTERNSHIP IN SURGERY AT  
14 THE TORONTO GENERAL HOSPITAL, AND WENT TO A FOUR-YEAR  
15 PROGRAM IN GENERAL SURGERY.

16 Q. AND WHERE WAS THAT PROGRAM?

17 A. AT THE TORONTO GENERAL HOSPITAL.

18 Q. AND THEN, DID YOU AT SOME POINT -- WHAT HAPPENS  
19 THEN IN TERMS OF YOUR TRAINING? ARE YOU THEN OUT WORKING  
20 OR --

21 A. WELL, THEN YOU'RE BOARD-ELIGIBLE, AND I TOOK MY  
22 BOARDS IN GENERAL SURGERY IN CANADA AND THE UNITED STATES.

23 SINCE I WANTED TO BE A CARDIOTHORACIC SURGEON, I  
24 HAD TO GO ON AND DO ADDITIONAL TRAINING, AND I CAME TO  
25 CHICAGO FOR THAT.

26 Q. YOU SAID YOU WERE BOARD-ELIGIBLE.

27 TELL US WHAT THAT MEANS.

28 A. WELL, I'M BOARD-CERTIFIED. "BOARD-ELIGIBLE"

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1 MEANS THAT YOU HAVE GONE THROUGH THE TRAINING, THAT YOU'RE  
2 ABLE TO SIT THE EXAMS.

3 "BOARD-CERTIFIED" MEANS THAT YOU HAVE ACTUALLY  
4 TAKEN THOSE EXAMS AND PASSED THOSE EXAMS.

5 Q. AND ARE YOU BOARD-CERTIFIED IN THORACIC SURGERY?

6 A. YES, I AM.

7 Q. DO YOU HAVE A CERTIFICATION IN THE MORE GENERAL  
8 SURGERY TOO?

9 A. YES, I DO.

10 Q. AND THEN A SIMILAR CERTIFICATION IN CANADA ALSO?

11 A. CORRECT.

12 Q. WOULD YOU DESCRIBE FOR US THEN THE SPECIALIZED  
13 TRAINING OR STUDY YOU DID IN CHICAGO.

14 A. WELL, I ALSO HAD AN INTEREST IN PATHOLOGY, IN  
15 ADDITION TO GENERAL THORACIC SURGERY. SO I CAME TO  
16 CHICAGO.

17 I ELECTED TO TAKE A YEAR OF SPECIAL STUDY AND  
18 RESEARCH ON LUNG TUMORS BEFORE I WENT ON TO CONTINUE MY  
19 TRAINING IN CARDIOTHORACIC SURGERY.

20 Q. PATHOLOGY IS A DIFFERENT SPECIALTY OF MEDICINE  
21 THAN SURGERY?

22 A. YES, IT IS.

23 Q. WHY IS IT THAT YOU WERE INTERESTED IN PATHOLOGY  
24 IF YOU WANTED TO BE A SURGEON?

25 A. WELL, I THINK IT HELPS A SURGEON TO UNDERSTAND  
26 PATHOLOGY. IN FACT, IN THE PAST, IT WAS A VERY INTEGRAL  
27 PART OF THE TRAINING PROGRAM. WHEN YOU OPEN A CHEST AND YOU  
28 SEE A TUMOR, IT HELPS TO HAVE SEEN THAT TUMOR GROSSLY AND

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1 MICROSCOPICALLY, AND HAVING STUDIED THOSE TUMORS AND SEEN  
2 OTHER CASES OF THOSE TUMORS.

3 THE MORE PATHOLOGY EXPERIENCE YOU CAN GET,  
4 PARTICULARLY RELATED TO YOUR FIELD, I THINK THE BETTER  
5 SURGEON YOU ARE.

6 Q. YOU MENTIONED SEEING THINGS MICROSCOPICALLY. WE  
7 TALKED A LITTLE BIT ABOUT THAT IN THIS TRIAL. YOU ALSO  
8 MENTIONED SEEING THINGS GROSSLY.

9 WHAT DO YOU MEAN BY "SEEING THINGS GROSSLY"?

10 A. WELL, THE ENTIRE SPECIMEN ARRIVES IN PATHOLOGY,  
11 ATTACHED TO SURROUNDING STRUCTURES. YOU GET A CHANCE TO  
12 FEEL THE CONSISTENCY OF IT, LOOK AT THE COLOR OF IT, TO SEE  
13 WHAT IT'S ATTACHED TO, TO HAVE A BETTER UNDERSTANDING OF  
14 WHAT THOSE TUMORS LOOK LIKE.

15 Q. WITH YOUR OWN EYES, AS OPPOSED TO THE MICROSCOPE?

16 A. CORRECT. WITH YOUR HANDS AS WELL.

17 Q. AFTER YOU DID THE SPECIAL TRAINING IN PATHOLOGY,  
18 WHAT DID YOU DO?

19 A. I WENT ON TO DO THREE YEARS OF TRAINING IN  
20 CARDIAC, THORACIC AND VASCULAR SURGERY.

21 Q. AND THAT WAS IN CHICAGO?

22 A. THAT'S RIGHT.

23 Q. AND CAN YOU DESCRIBE FOR US THE PRIVATE PRACTICE  
24 OF MEDICINE THAT YOU'VE BEEN INVOLVED IN.

25 A. IN 1985, I COMPLETED MY TRAINING AT RUSH  
26 PRESBYTERIAN AND ST. LUKE'S MEDICAL CENTER, AND WAS ASKED TO  
27 STAY ON STAFF AS A GENERAL THORACIC SURGEON SINCE THEN.

28 AND I'VE BEEN AT RUSH PRESBYTERIAN AND ST. LUKE'S  
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1 SINCE 1985.

2 Q. DO YOU ALSO HAVE TEACHING DUTIES?

3 A. YES, I DO.

4 Q. WHAT IS IT THAT YOU TEACH AND WHERE DO YOU TEACH  
5 IT?

6 A. WELL, I TEACH AT RUSH PRESBYTERIAN AND ST. LUKE'S  
7 MEDICAL CENTER. APPROXIMATELY FIVE OR SIX YEARS AGO, RUSH  
8 PRESBYTERIAN ACQUIRED COOK COUNTY HOSPITAL, WHICH HAD BEEN  
9 PREVIOUSLY PART OF THE TRAINING PROGRAM OF THE UNIVERSITY OF  
10 ILLINOIS.

11 SO I WAS TEACHING AT RUSH PRESBYTERIAN AND ST.  
12 LUKE'S, AND I WAS ALSO TEACHING AT COOK COUNTY HOSPITAL.

13 NOW COOK COUNTY AND PRESBYTERIAN ARE FOLDED INTO  
14 ONE PROGRAM, SO I HAVE TEACHING RESPONSIBILITIES IN BOTH  
15 INSTITUTIONS.

16 Q. I'M GOING TO TELL YOU SOMETHING BEFORE THE COURT  
17 REPORTER DOES IT. IF YOU COULD SLOW DOWN JUST A LITTLE, I  
18 THINK IT WOULD BE EASIER FOR HER, BECAUSE I TEND TO TALK A  
19 LITTLE FAST TOO. I THINK THAT BOTH OF US ARE GOING TO CAUSE  
20 A PROBLEM.

21 A. I'M SORRY.

22 Q. THAT'S OKAY.

23 DO YOU BELONG TO ANY PROFESSIONAL SOCIETIES?

24 A. YES, I DO.

25 Q. TELL US, JUST GENERALLY, WHAT A PROFESSIONAL  
26 SOCIETY IS AND WHY SOMEBODY IN YOUR POSITION IS INVOLVED IN  
27 THOSE THINGS.

28 A. WELL, A PROFESSIONAL SOCIETY IS A SOCIETY OF, IN  
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0007

1 THIS CASE, SURGEONS, DOCTORS, THAT GET A CHANCE TO EXCHANGE  
2 IDEAS, PRESENT IDEAS TO ONE ANOTHER. USUALLY ASSOCIATED  
3 WITH THOSE SOCIETIES ARE JOURNALS AND PUBLICATIONS, WHICH  
4 GIVES YOU AN OPPORTUNITY TO SHARE YOUR EXPERIENCE.

5 I'M SORRY. I'M GOING TOO FAST. AND IT GIVES YOU  
6 AN OPPORTUNITY TO PARTICIPATE IN MANY ASPECTS OF MEDICINE  
7 BEYOND SIMPLY THE PRACTICE OF MEDICINE.

8 Q. AND I TAKE IT, DOCTOR, THAT ON A DAY-TO-DAY

9 BASIS, IS THE MAJORITY OF YOUR TIME SPENT ACTUALLY DOING  
10 SURGERY?  
11 A. YES, IT IS.  
12 Q. AND NOW, ON TOP OF THAT, YOU HAVE SOME TEACHING  
13 DUTIES?  
14 A. YES, I DO.  
15 Q. ON TOP OF THAT, YOU FROM TIME TO TIME ARE  
16 INVOLVED IN PUBLISHING IDEAS, I THINK YOU SAID?  
17 A. YES.  
18 Q. TELL US ABOUT THAT.  
19 HOW DOES THAT WORK AND WHY IS IT DONE?  
20 A. WELL, IT'S DONE BY WORKING UP AN IDEA OR A  
21 PARTICULAR CASE OR SERIES OF CASES TO PRESENT SOMETHING NEW  
22 AND TO PUT THAT TOGETHER IN WRITTEN FORM, TO SUBMIT IT TO  
23 THE VARIOUS JOURNALS FOR THEM TO REVIEW BY YOUR PEERS, AND  
24 TO DETERMINE WHETHER IT'S TRULY A GOOD IDEA, NEW IDEA,  
25 SOMETHING THAT SHOULD BE DISTRIBUTED TO OTHER DOCTORS. AND  
26 IF FOUND APPROPRIATE, IT IS PUBLISHED.  
27 Q. AND WHERE ARE THOSE KINDS OF PAPERS PUBLISHED?  
28 A. THERE ARE SEVERAL MAJOR JOURNALS. THE ANNALS OF  
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0008

1 THORACIC SURGERY, THE JOURNAL OF THORACIC AND CARDIOVASCULAR  
2 SURGERY, CHEST, CANCER ARE FOUR LEADING JOURNALS.  
3 Q. HAVE YOU DONE RESEARCH AND PUBLISHED THE RESULTS  
4 OF THAT RESEARCH IN THOSE JOURNALS?  
5 A. YES, I HAVE.  
6 Q. WHAT OTHER JOURNALS HAVE YOU PUBLISHED THE  
7 RESULTS OF YOUR RESEARCH IN?  
8 A. VIRCHOV'S, V-I-R-C-H-O-V'S, ARCHIVES, THE  
9 AMERICAN JOURNAL OF PATHOLOGY, PATHOLOGY RESEARCH AND  
10 PRACTICE. THERE ARE MANY MORE. SHALL I GO ON?  
11 Q. ARE THESE THE KINDS OF THINGS THAT OTHER DOCTORS  
12 WHO HAVE INTEREST IN THE FIELD READ OR SUBSCRIBE TO?  
13 A. ABSOLUTELY.  
14 Q. HAVE YOU WRITTEN CHAPTERS OR PORTIONS OF MEDICAL  
15 TEXTBOOKS?  
16 A. YES, I HAVE.  
17 Q. ON WHAT SUBJECTS?  
18 A. VARIOUS ASPECTS OF THORACIC SURGERY, PATHOLOGY,  
19 AND THE CLINICAL-PATHOLOGIC CORRELATION OF THOSE TWO FIELDS.  
20 Q. LET ME ASK YOU TO EXPLAIN THAT, "THE  
21 CLINICAL-PATHOLOGIC CORRELATION."  
22 A. CORRECT.  
23 Q. BETWEEN PATHOLOGY AND SURGERY?  
24 A. CORRECT.  
25 Q. WHAT DOES THAT MEAN?  
26 A. WELL, IF ONE CONSIDERS PATHOLOGISTS DO PATHOLOGY  
27 AND SURGEONS DO SURGERY AND NEVER GET A CHANCE TO SHARE  
28 IDEAS, THEN THERE'S SOMETHING LOST.

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1 SO I READ THE PATHOLOGY LITERATURE, I APPLY IT TO  
2 THE CLINICAL LITERATURE, I CORRELATE THE TWO, AND I TRY AND  
3 WRITE PAPERS BRINGING THE PATHOLOGY -- OR WHATEVER INSIGHTS  
4 THE PATHOLOGISTS CAN BRING INTO A SERIES OF CASES, AND TRY  
5 AND DERIVE SOME INSIGHT.  
6 Q. HAVE YOU DONE RESEARCH AND PUBLISHED THE RESULTS  
7 OF THAT RESEARCH INVOLVING TUMORS THAT ARISE IN THE CHEST?  
8 A. ABSOLUTELY.  
9 Q. CAN YOU GIVE US SOME SENSE OF HOW EXTENSIVE OR  
10 HOW BROAD YOUR EXPERIENCE IN THAT AREA IS IN TERMS OF  
11 PUBLICATIONS?

12 A. I THINK THAT'S PROBABLY MY CHIEF FIELD OF  
13 INTEREST. AND I HAVE PUBLISHED, I THINK, ALMOST 100 PAPERS.  
14 NOW, THE MAJORITY OF THEM HAVE SOME INPUT FROM  
15 PATHOLOGY. I WOULD SAY MORE THAN HALF OF THEM HAVE  
16 CLINICAL-PATHOLOGIC IMPLICATIONS.

17 Q. HAVE YOU PUBLISHED PAPERS ON THE SUBJECT OF  
18 EPITHELIAL TUMORS?

19 A. YES, I HAVE.

20 Q. WHAT ARE EPITHELIAL TUMORS?

21 A. TUMORS ARE NEOPLASMS, ARE GROWTHS. AND  
22 "EPITHELIAL" MEANS THAT THEY'RE DERIVED FROM THE EPITHELIAL  
23 LAYER.

24 MALIGNANT EPITHELIAL TUMORS ARE CANCERS.

25 Q. AND DOES YOUR RESEARCH IN THAT AREA INCLUDE  
26 RESEARCH IN THE AREA OF SMALL CELL CARCINOMAS?

27 A. YES, IT DOES.

28 Q. IS A CARCINOMA A TYPE OF CANCER?

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1 A. YES, IT IS.

2 Q. AND A SMALL CELL IS A VARIATION OR A SUBTYPE OF  
3 CARCINOMA?

4 A. IT'S A SPECIAL TYPE OF CARCINOMA.

5 Q. DOCTOR, CAN YOU DESCRIBE IN A LITTLE MORE DETAIL  
6 FOR US, JUST GENERALLY, WHAT FUNCTIONS A THORACIC SURGEON  
7 PERFORMS IN THE DIAGNOSIS OR TREATMENT OF A PATIENT.

8 A. WELL, MANY TIMES, HE IS THE ONE TO ESTABLISH THE  
9 DIAGNOSIS. HE IS THE ONE TO HAVE SEEN THE PATIENT AFTER  
10 SOMETHING HAS BEEN DISCOVERED, AND HIS CHARGE IS TO  
11 ESTABLISH A DIAGNOSIS, TO FIND OUT WHAT THE PROBLEM IS, AND  
12 IN THE CASE OF A TUMOR, TO STAGE IT SO YOU KNOW HOW FAR THAT  
13 PROBLEM HAS GONE, AND TO FORMULATE A PLAN OF THERAPY WHICH  
14 MAY OR MAY NOT INVOLVE OPERATING AND TAKING IT OUT.

15 Q. ARE THERE TOOLS OR PROCEDURES AVAILABLE TO YOU TO  
16 HELP YOU MAKE THOSE DECISIONS?

17 A. OH, YES, THERE ARE.

18 Q. WHAT ARE THEY?

19 A. WELL, DEPENDING UPON WHERE THE TUMOR IS AND WHERE  
20 IT'S LOCATED, AND WHAT YOUR SUSPICION OF WHAT THAT IS, WHAT  
21 THAT TUMOR REPRESENTS, YOU COULD PUT A NEEDLE INTO IT AND  
22 TAKE OUT SOME CELLS. YOU COULD PUT A NEEDLE INTO THE SIDE  
23 AND TAKE OUT SOME FLUID.

24 YOU COULD PASS A SCOPE DOWN -- FOR INSTANCE, IN  
25 THE CASE OF LUNG CANCER -- AND SCRAPE SOME CELLS FROM THE  
26 SURFACE OF THE WINDPIPE, OR TAKE SOME MINUTE BIOPSIES.

27 THOSE THINGS CAN BE DONE QUITE EASILY, AND  
28 USUALLY AS AN OUTPATIENT, WITH LOCAL ANESTHETIC, OR YOU

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1 COULD GO ON TO MORE INVASIVE PROCEDURES.

2 Q. IS THE PROCEDURE YOU JUST DESCRIBED SOMETHING  
3 KNOWN AS A BRONCHOSCOPY?

4 A. THE SCOPE DOWN THE WINDPIPE AND OBTAINING SAMPLES  
5 IS A BRONCHOSCOPY, YES.

6 Q. IN TERMS OF DIAGNOSING TUMORS THAT START IN THE  
7 LUNG, HOW USEFUL IS BRONCHOSCOPY?

8 A. WELL, IT'S USUALLY THE FIRST TOOL THAT IS USED.  
9 IT'S VERY USEFUL.

10 Q. IN PATIENTS WHO HAVE SMALL CELL CARCINOMA OF THE  
11 LUNG, SMALL CELL CARCINOMA THAT STARTS IN THE LUNG, IN YOUR  
12 EXPERIENCE, HOW OFTEN CAN YOU DEMONSTRATE THAT USING A  
13 BRONCHOSCOPE?

14 A. IN THE VAST MAJORITY OF CASES, YOU CAN ESTABLISH

15 THE DIAGNOSIS OF SMALL CELL CARCINOMA BY PASSING THE  
16 BRONCHOSCOPE AND OBTAINING SAMPLES THAT WAY.

17 Q. ARE THERE OTHER ABNORMALITIES THAT YOU CAN  
18 OBSERVE USING A BRONCHOSCOPE THAT MIGHT HELP YOU FORM A  
19 DIAGNOSIS ABOUT A PATIENT'S CANCER?

20 A. WELL, CERTAINLY, YOU CAN LOCATE WHERE THE  
21 PATHOLOGY IS. SMALL CELL CARCINOMA OF THE LUNG IS A VERY  
22 AGGRESSIVE TUMOR, AND SOMETIMES, EVEN THOUGH IT IS SEEN IN  
23 THE LUNG -- AND SOMETIMES IT CAN BE QUITE LARGE AND OBVIOUS  
24 ON A CHEST X-RAY -- IT CAN GROW UNDER THE LINING OF THE  
25 LUNG, SO THAT SOMETIMES THE FINDINGS BY X-RAY AND THE GROSS  
26 FINDINGS ARE QUITE OBVIOUS.

27 BUT SOMETIMES, THE DIAGNOSIS CAN'T BE ESTABLISHED  
28 SIMPLY BY SCRAPING THE SURFACE OF THE WINDPIPE BECAUSE THE  
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1 TUMOR GOES ALL AROUND THE WINDPIPE AND UNDER, AROUND THE  
2 LINING OF THE LUNG.

3 Q. IN THOSE SITUATIONS, ARE THERE OTHER  
4 ABNORMALITIES THAT CAN BE OBSERVED OR CORRELATED WITH THE  
5 PATHOLOGY, AS IT WERE?

6 A. THE AIRWAY CAN BE NARROWED. THE AIRWAY CAN BE  
7 COLLAPSED. THE AIRWAY CAN BE COMPROMISED AND SECRETIONS CAN  
8 BUILD UP BEHIND IT.

9 SO YOU HAVE A PNEUMONIA COMPLICATING THE PRESENCE  
10 OF THAT CANCER.

11 Q. IS AN AIRWAY --I WANT TO KEEP OUR TERMS  
12 STRAIGHT -- IS "AIRWAY" A MORE GENERAL OR LAYMAN'S TERM FOR  
13 BRONCHUS OR BRONCHI?

14 A. WELL, THE AIRWAY CONSISTS OF THE TRACHEA, RUNNING  
15 FROM THE VOICE BOX DOWN TO THE CENTER OF THE CHEST. FROM  
16 THAT POINT, IT BREAKS INTO BRONCHI, ONE MAIN STEM BRONCHUS  
17 TO EACH SIDE, AND THERE, JUST LIKE THE BRANCHES OF A TREE,  
18 WITH A SPECIFIC BRANCHING SYSTEM, IT FEEDS OFF INTO ALL THE  
19 PARTS OF THE LUNG. THAT'S ALL PART OF THE AIRWAY.

20 Q. WHAT USE DOES A SURGEON MAKE OF X-RAYS OR CT  
21 SCANS IN TRYING TO DIAGNOSE DISEASE OR TO DETERMINE WHERE IN  
22 THE BODY IT EXISTS?

23 A. OH, IT'S PIVOTAL.

24 Q. TELL US HOW YOU USE THEM.

25 LET ME BACK UP FOR A MINUTE.

26 THERE ARE DOCTORS, I TAKE IT, WHO SPECIALIZE IN  
27 INTERPRETING OR DESCRIBING THINGS THAT ARE SEEN ON X-RAYS OR  
28 CT SCANS?

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1 A. YES, THERE ARE.

2 Q. AND THEY KNOWN AS RADIOLOGISTS?

3 A. THAT'S RIGHT.

4 Q. BUT AS A SURGEON, ARE YOU ALSO REQUIRED, ON A  
5 DAY-TO-DAY BASIS, TO READ AND INTERPRET X-RAYS AND CT SCANS?

6 A. YES, ABSOLUTELY.

7 Q. IN WHAT INSTANCES AND HOW DO YOU USE THEM?

8 A. WELL, MANY TIMES, WE LOOK AT X-RAYS EVEN WITHOUT  
9 THE X-RAY REPORT. I LOOK EVERY DAY AT X-RAYS THAT HAVE NOT  
10 YET BEEN READ BY THE RADIOLOGIST.

11 WHEN A PATIENT IS IN THE HOSPITAL AND THEY'VE HAD  
12 AN OPERATION, THEY GET A CHEST X-RAY. NINE TIMES OUT OF 10,  
13 I SEE THAT X-RAY BEFORE A RADIOLOGIST HAS SEEN IT.

14 IN THE CASE OF A PATIENT WHO COMES INTO THE  
15 OFFICE WITH A CHEST X-RAY OR A CAT SCAN, I OFTEN -- AS A  
16 MATTER OF FACT, I TRY TO LOOK AT THAT X-RAY WITHOUT THE  
17 OFFICIAL INTERPRETATION. I DO THAT SO THAT I'M NOT BIASED

18 BY THE READING OF THE RADIOLOGIST.  
19 BUT I THINK IT'S ALSO TRUE THAT I HAVE SPECIAL  
20 INSIGHT IN THAT I HAVE OPENED THE CHEST AND I HAVE SEEN WHAT  
21 IS IN THE CHEST. I CAN MAKE COMMENTS OR NOTES TO MYSELF ON  
22 THE LOCATION OF THIS TUMOR AND WHAT PROBLEMS IT MIGHT POSE  
23 AT THE TIME OF SURGERY THAT A RADIOLOGIST WOULDN'T EVEN  
24 CONSIDER.  
25 SO IT'S OF PIVOTAL IMPORTANCE THAT I SEE THE  
26 X-RAY AND NOT JUST SOMEBODY'S INTERPRETATION OF THAT X-RAY.  
27 Q. DO YOU USUALLY USE X-RAYS OR CT SCANS IN THE  
28 OPERATING ROOM WHILE YOU ARE PERFORMING SURGERY?  
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1 A. IN EVERY CASE -- EVERY CASE, I HAVE AN X-RAY,  
2 USUALLY A CAT SCAN, MOUNTED IN THE OPERATING ROOM WHILE I'M  
3 PERFORMING THE SURGERY.  
4 Q. AND HOW DO YOU USE IT, OR WHAT USE DO YOU MAKE OF  
5 IT?  
6 A. SOMETIMES IT HELPS YOU TO FIND A TUMOR THAT COULD  
7 BE EXTREMELY SMALL AND IN THE CENTER OF THE LUNG.  
8 OTHER TIMES -- I'M GOING TOO FAST. I'M SORRY.  
9 OTHER TIMES, IT SIMPLY CAN BE USED TO CORRELATE WITH  
10 UNEXPECTED FINDINGS AT THE TIME OF SURGERY. YOU CAN LOOK  
11 BACK AT THE X-RAY AND SHARPEN YOUR SKILLS ON READING THE  
12 X-RAY BY VIRTUE OF FINDING SOMETHING THAT WAS MISSED BEFORE.  
13 Q. HOW MANY -- I DON'T KNOW THE RIGHT WORDS, WHETHER  
14 IT'S SURGERIES OR SURGICAL PROCEDURES -- HOW MANY SURGERIES,  
15 CHEST SURGERIES DO YOU PERFORM EACH YEAR?  
16 A. PROBABLY ON THE ORDER OF 200 TO 250.  
17 Q. AND DO YOU SEE OR DIAGNOSE A FAIR AMOUNT OF LUNG  
18 CANCER EACH YEAR?  
19 A. OH, YES.  
20 Q. HOW MANY CASES EVERY YEAR OF CANCER THAT ACTUALLY  
21 STARTS GROWING IN THE LUNG DO YOU DIAGNOSE?  
22 A. PROBABLY BETWEEN 50 AND 80 CASES A YEAR.  
23 Q. AND WHEN YOU HAVE CASES LIKE THAT, HOW DO YOU  
24 TYPICALLY DIAGNOSE THEM?  
25 A. SOMETIMES THEY ARRIVE WITH A DIAGNOSIS ALREADY  
26 PROVIDED FROM THE REFERRING DOCTOR. SOMETIMES THEY HAVE  
27 ALREADY ESTABLISHED A DIAGNOSIS AND THEY ARE SENT TO ME FOR  
28 OTHER REASONS.

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1 BUT IF I HAVE TO ESTABLISH THE DIAGNOSIS, I WOULD  
2 PERFORM THE APPROPRIATE PROCEDURE, WHICH OFTEN IS THE  
3 BRONCHOSCOPY.  
4 Q. WHAT IS THE MOST COMMON TYPE OF -- ARE THERE  
5 DIFFERENT TYPES OF CANCER THAT START IN THE LUNG?  
6 A. YES, THERE ARE.  
7 Q. WHAT IS THE MOST COMMON TYPE?  
8 A. ADENOCARCINOMA.  
9 Q. IS THAT A TYPE OF CANCER THAT CAN START IN OTHER  
10 PARTS OF THE BODY ALSO?  
11 A. YES, IT CAN. THERE ARE SPECIAL FEATURES THAT  
12 SOMETIMES DIRECT YOU AS TO WHERE A CANCER STARTED.  
13 Q. AND IS ANOTHER TYPE OF CANCER WE HAVE TALKED  
14 ABOUT KNOWN AS SMALL CELL CARCINOMA?  
15 A. THAT'S RIGHT.  
16 Q. THAT IS A DIFFERENT TYPE OF CANCER THAN  
17 ADENOCARCINOMA?  
18 A. THAT'S RIGHT.  
19 Q. DO YOU SEE PEOPLE WITH SMALL CELL CARCINOMA?  
20 A. OH, YES.

21 Q. AND DO YOU SEE PEOPLE WITH SMALL CELL CARCINOMA  
22 THAT ACTUALLY STARTS IN THE LUNG?

23 A. OH, YES.

24 Q. HOW DO YOU DETERMINE IN ONE OF YOUR PATIENTS  
25 WHETHER THEY HAVE A CANCER THAT STARTED IN THE LUNG AS  
26 OPPOSED TO IT STARTED SOMEWHERE ELSE AND PERHAPS SPREAD TO  
27 THE LUNG?

28 LET ME BACK UP.

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1 A. SURELY.

2 Q. ARE THERE TUMORS, DOCTOR, THAT YOU CAN FIND IN  
3 THE LUNG THAT START SOMEWHERE ELSE IN THE BODY AND SPREAD TO  
4 THE LUNG?

5 A. YES.

6 Q. HOW OFTEN, IN YOUR EXPERIENCE, DOES THAT OCCUR?

7 A. QUITE COMMONLY.

8 Q. AND IS THERE AN ANATOMICAL OR A PATHOLOGICAL  
9 EXPLANATION FOR THAT?

10 A. WELL, IT'S THE NATURE OF CANCER THAT CANCER CELLS  
11 ARE SHED FROM ITS PRIMARY SITE AND SPREAD THROUGH THE BLOOD  
12 SYSTEM, THE CIRCULATION, AND ESTABLISHES, IF YOU WISH,  
13 PERIPHERAL COLONIES THROUGHOUT THE BODY.

14 THE LUNG IS THE FAVORITE SITE.

15 Q. FOR A CANCER THAT STARTED SOMEWHERE ELSE TO  
16 ESTABLISH ITSELF?

17 A. THAT'S CORRECT.

18 Q. IS THAT A SECONDARY OR --

19 A. OR A METASTASIS IN THE LUNG.

20 Q. NOW, IN YOUR PRACTICE, HOW DO YOU DETERMINE  
21 WHETHER A CANCER STARTED IN THE LUNG OR STARTED SOMEWHERE  
22 ELSE AND SPREAD TO THE LUNG, IF YOU FIND THE TUMOR IN THE  
23 LUNG?

24 A. WELL, USUALLY, THERE IS A HISTORY OF A PATIENT  
25 WHO HAS ALREADY HAD A DIAGNOSIS OF CANCER ELSEWHERE  
26 ESTABLISHED. SAY, FOR INSTANCE, A PATIENT WHO HAD A BOWEL  
27 CANCER RESECTED THREE YEARS AGO, AND THEY END UP WITH A  
28 NODULE, OFTEN MORE THAN ONE, IN THE LUNG THAT APPEAR.

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0017

1 Q. CAN I INTERRUPT.

2 WHAT DO YOU MEAN BY "RESECTED"?

3 A. TAKEN OUT, OPERATED UPON, AND COMPLETELY REMOVED  
4 FROM THE ORIGINAL SITE.

5 Q. I'M SORRY I INTERRUPTED YOU.

6 A. SOMETIMES THERE IS NO HISTORY OF A CANCER  
7 ELSEWHERE, AND IT CAN BE SOMEWHAT OF A SURPRISE THAT IT'S A  
8 SOLITARY LESION. YOU CAN THINK THAT IT PROBABLY WAS ARISING  
9 IN THE LUNG, BUT WHEN YOU SEND IT DOWN TO THE PATHOLOGIST,  
10 HE SAYS, BASED ON WHAT HE SEES UNDER THE MICROSCOPE, THAT  
11 "THIS LOOKS LIKE KIDNEY CANCER," FOR INSTANCE.

12 Q. CANCERS LOOK DIFFERENTLY UNDER THE MICROSCOPE,  
13 DEPENDING ON WHERE IN THE BODY THEY START?

14 A. YES AND NO. SOME OF THEM HAVE A VERY  
15 CHARACTERISTIC PATTERN, AND OTHERS, IT IS LESS HELPFUL.

16 Q. WITH RESPECT TO SMALL CELL CARCINOMA, IS THAT A  
17 TYPE OF CANCER THAT CAN START IN A VARIETY OF LOCATIONS  
18 WITHIN THE BODY?

19 A. YES, IT CAN.

20 Q. WHERE GENERALLY IN THE BODY CAN A SMALL CELL  
21 CANCER START?

22 A. THE MOST LIKELY SITE, THE MOST COMMON SITE FOR  
23 SMALL CELL CARCINOMA TO ARISE IS THE LUNG, BUT IT HAS BEEN



24 FOUND THROUGHOUT THE BODY. IT HAS BEEN FOUND TO ARISE IN  
25 THE SKIN. IT'S BEEN FOUND TO ARISE IN THE VOICE BOX. IT'S  
26 BEEN FOUND TO ARISE IN THE THYMUS. IT'S BEEN FOUND TO ARISE  
27 IN THE STOMACH AND THE LARGE BOWEL. IT'S BEEN FOUND TO  
28 ARISE IN THE OVARY AND IN THE GENITOURINARY TRACT.

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0018

1 Q. IS THERE ANY WAY TO DETERMINE, BY LOOKING AT A  
2 SMALL CELL CARCINOMA UNDER THE MICROSCOPE, WHETHER OR IF IT  
3 STARTED IN ANY PARTICULAR PART OF THE BODY?

4 A. NO.

5 Q. HOW IS IT THEN THAT WHAT -- STRIKE THAT.  
6 WHAT ARE THE THINGS THAT YOU FIND IN A PATIENT  
7 WHO HAS A SMALL CELL CARCINOMA THAT ACTUALLY STARTED IN THE  
8 LUNG?

9 A. ARE YOU ASKING FOR A CLINICAL PICTURE HERE?

10 Q. CORRECT. TELL US WHAT YOU MEAN BY "CLINICAL  
11 PICTURE."

12 A. WELL, THE CLINICAL PICTURE IS THE WAY THAT THE  
13 PATIENT PRESENTS THEIR STORY AND WHAT YOU FIND ON EXAMINING  
14 THE PATIENT.

15 THE STORY OFTEN, UNFORTUNATELY, IS THAT THE  
16 CANCER HAS ALREADY SPREAD OUTSIDE THE CHEST BY THE TIME YOU  
17 DISCOVER IT. THREE-QUARTERS OF THE TIME, A SMALL CELL  
18 CARCINOMA WHICH AROSE IN THE LUNG HAS ALREADY SPREAD OUTSIDE  
19 THE CHEST.

20 Q. TO WHERE?

21 A. OFTEN, IT'S TO SITES LIKE THE BRAIN, AND THE  
22 PATIENT MAY PRESENT WITH BLURRED VISION OR UNSTEADINESS.  
23 THEY CAN PRESENT WITH THE TUMOR ALREADY SPREAD TO THE LIVER  
24 AND HAVE ASSOCIATED NAUSEA, FEELING SICK, LOSING WEIGHT.

25 THEY CAN HAVE THE TUMOR STILL CONFINED TO THE  
26 CHEST, BUT CAUSING COMPRESSION OF BLOOD VESSELS IN THE CHEST  
27 OR INVADING NERVES IN THE CHEST. ONE FAVORITE FOR IT TO  
28 PRESENT IS WITH SOME UNEXPLAINED HOARSENESS.

JUDITH ANN OSSA, CSR NO. 2310

0019

1 Q. AND WHAT DO YOU MEAN BY "HOARSENESS"?

2 A. WELL, THE VOICE IS WEAK, AND IN FACT, THE VOICE  
3 SOMETIMES CRACKS.

4 IN THIS PARTICULAR SCENARIO THAT I'M PRESENTING,  
5 ONE OF THE NERVES TO THE VOICE BOX IS PARALYZED, MEANING  
6 THAT ONE OF THE VOCAL CORDS IS PARALYZED, SO ONLY ONE VOCAL  
7 CORD WORKS, AND THAT GIVES A PATIENT A CHARACTERISTIC TYPE  
8 OF HOARSENESS.

9 Q. IS THAT SOMETHING THAT RESULTS FROM SOME KIND OF  
10 PATHOLOGICAL OCCURRENCE WITHIN THE CHEST?

11 A. I WAS DESCRIBING THAT IN THE SETTING OF A SMALL  
12 CELL CARCINOMA OF THE LUNG THAT HAS ADVANCED IN THE CHEST.

13 Q. WHAT OTHER -- WHAT OTHER FINDINGS DO YOU  
14 TYPICALLY SEE IN A PATIENT WHO HAS SMALL CELL CARCINOMA THAT  
15 ACTUALLY BEGINS OR BEGAN IN THE LUNG?

16 A. ARE YOU ASKING FOR OTHER SITES OF SPREAD OF THE  
17 SMALL CELL CARCINOMA?

18 Q. WELL, LET ME ASK YOU THAT.

19 HOW DO YOU DEMONSTRATE THAT IT'S SPREAD TO OTHER  
20 PARTS OF THE BODY, OR HOW DO YOU KNOW IT HAS SPREAD?

21 A. WELL, THE FIRST THING YOU DO IS TAKE A HISTORY  
22 FROM THE PATIENT. YOU ASK THEM HOW THEY'RE FEELING. AND IF  
23 THEY SAY THEY'RE HAVING BLURRED VISION, THEN, OBVIOUSLY,  
24 YOUR EXAMINATION WOULD BE DIRECTED TOWARDS SOMETHING GOING  
25 ON WITH THE BRAIN OR THE EYES.

26 IF THEY'RE EXPLAINING THAT THEIR VOICE IS HOARSE,

27 THEN YOUR EXAMINATION WOULD BE DIRECTED TOWARD WHAT COULD BE  
28 CAUSING A HOARSE VOICE.

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0020

1 BUT IF YOUR SUSPICION SOMEWHERE ALONG THE LINE IS  
2 THAT THERE'S SOMETHING GOING ON IN THE CHEST, SOONER OR  
3 LATER YOU ARE GOING TO GET A CHEST X-RAY, EITHER BASED ON  
4 THE CLINICAL FINDINGS, OR EVEN IN THE ABSENCE OF CLINICAL  
5 FINDINGS.

6 Q. AND WHAT WOULD YOU TYPICALLY FIND ON A CHEST  
7 X-RAY IN A PATIENT WHO HAS A SMALL CELL CANCER THAT HAS  
8 STARTED IN THE LUNG?

9 A. WELL, TYPICALLY, YOU'LL FIND A CENTRAL MASS IN  
10 THE LUNG.

11 Q. WHEN YOU SAY YOU FIND IT, YOU MEAN YOU SEE IT ON  
12 THE X-RAY?

13 A. YOU SEE IT ON THE X-RAY.

14 Q. WHAT ABOUT THE CT SCAN; WHAT DO YOU TYPICALLY  
15 FIND ON A CT SCAN?

16 A. WELL, IF YOU SUSPECT SOMETHING IS GOING ON BY THE  
17 CHEST X-RAY, OR EVEN FROM THE CLINICAL STORY, YOU'LL PROCEED  
18 TO GET A CAT SCAN OR A CT SCAN.

19 "CT" STANDS FOR COMPUTERIZED TOMOGRAPHY, WHERE  
20 YOU CAN SEE IN GREAT DETAIL THE RELATIONSHIP IN THE VARIOUS  
21 STRUCTURES OF THE CHEST. AND A CAT SCAN WOULD HELP TO  
22 PINPOINT WHERE THE MASS IS, WHAT IT'S ADJACENT TO, WHAT  
23 OTHER PROBLEMS ARE ASSOCIATED WITH THIS MASS, AND IT WILL  
24 HELP TO DETERMINE SUCH THINGS AS, CAN YOU GET IT OUT.

25 Q. IN YOUR EXPERIENCE IN PATIENTS WHO HAVE A SMALL  
26 CELL CANCER THAT STARTS IN THE LUNG, ARE THERE ABNORMALITIES  
27 IN THE LUNG FIELDS ON THE CT SCAN?

28 A. OH, YES. ABSOLUTELY.

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0021

1 Q. AND THEN, WHAT ELSE DO YOU FIND TYPICALLY BEYOND  
2 THE X-RAYS, THE CT SCANS AND THE HISTORY?

3 A. WELL, IF YOU SUSPECT THAT THERE IS A LUNG  
4 PROBLEM, THEN YOU HAVE TO GO AHEAD AND ESTABLISH A DIAGNOSIS  
5 OF THAT.

6 USUALLY, WHEN THE CAT SCAN IS PERFORMED, IT WILL  
7 HELP TO A POINT WHERE IN THE LUNG THAT IS, AND YOU WOULD  
8 OFTEN PROCEED WITH A BRONCHOSCOPY.

9 Q. AND THAT'S THE PROCEDURE WE TALKED ABOUT EARLIER?

10 A. THAT IS THE PROCEDURE WE TALKED ABOUT EARLIER,  
11 WHEREUPON A SMALL FLEXIBLE SCOPE IS PASSED DOWN THE WINDPIPE  
12 INTO THE AREA OF CONCERN.

13 Q. AND WHAT HAPPENS THEN? WHAT USE DO YOU MAKE OF  
14 THAT TOOL IN ORDER TO CREATE OR ARRIVE AT A DIAGNOSIS OF A  
15 CANCER THAT ACTUALLY STARTED IN THE LUNG?

16 A. WELL, USUALLY, AT THAT TIME, YOU TAKE SAMPLES OF  
17 THE LINING OF THE WINDPIPE, WHICH CAN BE DONE EITHER BY  
18 PASSING A LITTLE BRUSH DOWN THROUGH THE SCOPE, WHICH IS  
19 ABOUT THE SIZE OF THE DIAMETER OF A PEN OR A PENCIL, AND YOU  
20 TAKE A BRUSHING. YOU SCRAPE SOME CELLS FROM THE SURFACE OF  
21 THE LINING OF THE WINDPIPE.

22 YOU CAN ALSO OBTAIN BIOPSIES, WHICH ARE LITTLE  
23 TINY MILLIMETER PIECES OF TISSUE, AND YOU CAN SEND THOSE TO  
24 PATHOLOGY AS WELL.

25 YOU CAN ALSO IRRIGATE, THAT IS, WASH WITH SALINE,  
26 SALT AND WATER, THE LINING OF THE WINDPIPE, AND OBTAIN  
27 FURTHER SAMPLES THERE FROM CELLS THAT ARE BEING SHED FROM  
28 THE SURFACE OF THE WINDPIPE IN ORDER TO ESTABLISH A

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0022

1 DIAGNOSIS.

2 Q. DOCTOR, HOW USUAL OR HOW TYPICAL -- STRIKE THAT.  
3 HOW UNUSUAL WOULD IT BE TO CONCLUDE -- STRIKE  
4 THAT.

5 IN YOUR EXPERIENCE, HOW OFTEN DO YOU CONCLUDE OR  
6 DETERMINE THAT A PATIENT HAS A CANCER THAT STARTED IN HIS OR  
7 HER LUNG WHEN THERE'S NO EVIDENCE OF AN ABNORMALITY ON THE  
8 LUNG FIELDS IN THE CAT SCAN AND THERE'S NO BIOPSY OBTAINED  
9 FROM A BRONCHOSCOPY THAT IS POSITIVE FOR CANCER CELLS?

10 A. WELL, IT CAN HAPPEN. BUT USUALLY, LUNG CANCER,  
11 YOU CAN FIND SOMETHING IN THE LUNG. IF YOU DON'T SEE IT ON  
12 A PLAIN X-RAY, YOU MAY FIND SOMETHING SMALLER, SAY, THE SIZE  
13 OF A PEA BY CAT SCAN. IF THERE'S NOTHING ON CHEST X-RAY OR  
14 CAT SCAN, I THINK IT'S LESS LIKELY, EVEN MORE LESS LIKELY.  
15 IN FACT, IT WOULD BE VERY UNCOMMON. NOT UNHEARD OF, BUT  
16 VERY UNCOMMON.

17 IF YOU ADD TO THAT BRONCHOSCOPY OR SPUTUM  
18 CYTOLOGY, YOU KEEP GOING DOWN THE LIST TO LOOK HARDER AND  
19 HARDER FOR THINGS IN THE LUNG, AND THEY'RE ALL COMING UP  
20 NEGATIVE, I THINK THAT SOONER OR LATER, YOU HAVE TO ASK  
21 YOURSELF WHETHER THERE WAS ANYTHING GOING ON IN THE LUNG IN  
22 THE FIRST PLACE.

23 Q. NOW, DOCTOR, HAVE YOU LOOKED AT MEDICAL RECORDS  
24 AND X-RAYS AND CT SCANS RELATING TO MS. HENLEY, PATRICIA  
25 HENLEY?

26 A. YES, I HAVE.

27 Q. AND YOU'VE DONE THAT IN ORDER TO FORM AN OPINION,  
28 IF YOU CAN, ABOUT WHERE HER CANCER MIGHT HAVE STARTED?

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0023

1 A. YES, I HAVE.

2 Q. WITH SPECIFIC REFERENCE TO THE LIKELIHOOD THAT IT  
3 DID OR DID NOT START IN THE LUNG?

4 A. YES.

5 Q. CAN YOU DESCRIBE FOR ME WHAT IT WAS YOU HAVE  
6 REVIEWED.

7 A. WELL, I REVIEWED A SERIES OF CHEST X-RAYS, WHICH  
8 INCLUDED A CHEST X-RAY FROM THE FRONT AND SIDE THAT WAS  
9 PERFORMED BEFORE HER SURGERY IN JANUARY 1998. AND I BELIEVE  
10 IT WAS JANUARY THE 3RD.

11 I ALSO REVIEWED A CAT SCAN THAT WAS DONE ON OR  
12 ABOUT THAT SAME TIME, BEFORE HER OPERATION.

13 Q. AND I HAVE THOSE.

14 IF WE PUT THOSE ON THE BOX, WOULD YOU BE ABLE TO  
15 DESCRIBE FOR US YOUR IMPRESSIONS OF THOSE FILMS, AND COMPARE  
16 AND CONTRAST THEM TO WHAT YOU TYPICALLY FIND IN PATIENTS WHO  
17 HAVE A CANCER THAT STARTS IN THEIR LUNG?

18 A. SURELY.

19 MR. OHLEMEYER: MAY I, YOUR HONOR?

20 THE COURT: SURE.

21 MR. OHLEMEYER: Q. ACTUALLY, DOCTOR, WHY DON'T  
22 YOU STEP DOWN AND TAKE A LOOK AT THAT, AND I'LL SET THIS UP.

23 MS. CHABER: WE'LL SEE IF HE DOES BETTER AT  
24 MOVING THAT THAN I DO (REFERRING TO VIEW BOX).

25 THE COURT: HE'S NOT OFF TO A GOOD START.

26 MR. OHLEMEYER: NOT BAD.

27 THE WITNESS: ARE THE FILMS IN HERE?

28 MR. OHLEMEYER: YES.

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0024

1 Q. AND WHAT YOU HAVE TO DO FOR US, DOCTOR, IS  
2 IDENTIFY WHAT IT IS YOU'RE PUTTING ON THE BOX FOR US.

3 A. ALL RIGHT.  
4 Q. WHY DON'T YOU GO AHEAD, DOCTOR, AND DESCRIBE FOR  
5 US WHAT YOU PUT ON THE LIGHT BOX.  
6 A. WHAT I PUT UP HERE IS A CHEST X-RAY TAKEN FROM  
7 THE FRONT AND FROM THE SIDE OF MS. PATRICIA HENLEY, DONE ON  
8 JANUARY THE 3RD, 1998. THIS WAS DONE LOOKING LIKE THIS  
9 (INDICATING).  
10 AND THIS WAS DONE AS A SIDE VIEW. REMEMBER, THE  
11 HANDS ARE UP OVER THE HEAD, SO YOU DON'T SEE THE ARMS. THEY  
12 ARE UP HERE (DEMONSTRATING).  
13 THIS IS THE CHEST, THIS IS THE FRONT, THIS IS THE  
14 BACK, THIS IS THE TOP, THIS IS THE BOTTOM (DEMONSTRATING).  
15 AND ON THESE FILMS, YOU CAN SEE THAT THERE IS AN  
16 ABNORMALITY RIGHT HERE (INDICATING).  
17 (HANDS RAISED)  
18 MR. OHLEMEYER: EXCUSE ME, DOCTOR. YOU ARE  
19 GOING TO HAVE TO STAND A LITTLE TO THE SIDE SO THAT PEOPLE  
20 CAN SEE.  
21 THE COURT: JUST SO YOU KNOW, A COUPLE OF OUR  
22 JURORS ARE SITTING IN THE FRONT ROW.  
23 THE WITNESS: OH, FINE.  
24 THE COURT: AND THEY HAVE BEEN TOLD TO RAISE  
25 THEIR HANDS IF THEY CAN'T SEE, AND THEY WERE RAISING THEIR  
26 HANDS.  
27 THE WITNESS: THANK YOU.  
28 I'M STARTING WITH THESE TWO X-RAYS HERE. THIS IS  
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0025

1 A FRONT VIEW AND THIS IS A SIDE VIEW, ON JANUARY THE 3RD.  
2 AND THE ABNORMALITY IS SEEN IN SILHOUETTE RIGHT  
3 HERE (INDICATING). PRESUMABLY, IT GOES IN HERE, AND IT'S  
4 NOT LIMITED TO THAT LINE, BUT THAT LINE IS ABNORMAL.  
5 EVERYTHING ELSE ON THAT CHEST X-RAY LOOKS  
6 NORMAL. THIS IS THE RIGHT LUNG, THIS IS THE LEFT LUNG, THIS  
7 IS THE HEART, THE LEFT HEMIDIAPHRAGM, THE RIGHT  
8 HEMIDIAPHRAGM (INDICATING).  
9 THERE IS NO FLUID. THERE'S NO MASS. THERE IS NO  
10 INFILTRATE.  
11 AND THIS IS VIRTUALLY THE ONLY ABNORMALITY THAT I  
12 CAN SEE ON THAT FILM.  
13 MR. OHLEMEYER: Q. LET ME ASK YOU THIS,  
14 DOCTOR: IS THAT ABNORMAL, INSIDE THE LUNG?  
15 A. I CAN'T TELL, BASED ON THIS ONE VIEW OF THIS ONE  
16 X-RAY. IT COULD BE, BASED ON THIS X-RAY.  
17 THIS IS THE SIDE VIEW, THIS IS THE FRONT, AND  
18 THIS IS THE BACK.  
19 Q. YOU ARE REFERRING TO THE SECOND FILM?  
20 A. CORRECT. THIS IS THE BACKBONE IN BACK. THIS IS  
21 THE HEART IN FRONT (INDICATING).  
22 AND YOU CAN SEE THE WINDPIPE COMING RIGHT DOWN  
23 HERE (INDICATING). AND THIS IS THE MASS IN THIS REGION, ON  
24 TOP OF THE HEART, IF YOU WISH.  
25 BUT THAT MASS, YOU CAN SEE THAT THERE IS A  
26 WHITENESS TO THIS IN FRONT OF THE WINDPIPE AS WELL.  
27 Q. WHAT DOES THAT TELL YOU WITH RESPECT TO WHERE IT  
28 MIGHT BE LOCATED?

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0026

1 A. IT IS IN THE HILUM OF THE LUNG. IT IS IN THE  
2 ROOT OF THE LUNG.  
3 THERE ARE A LOT OF THINGS THAT GO ON THERE. IT  
4 IS POSSIBLE THAT THIS IS A LUNG MASS, BUT IT WOULD BE  
5 UNUSUAL FOR A LUNG MASS TO INVOLVE THIS REGION HERE

6 (INDICATING).

7 Q. LET ME STOP YOU THERE.

8 AT THIS POINT IN TIME, ARE YOU FAMILIAR WITH WHAT  
9 MS. HENLEY'S SYMPTOMS WERE AT THE TIME SHE GOT THE X-RAY?

10 A. I BELIEVE SHE WAS FEELING UNWELL. SHE HAD A  
11 COUGH. SHE, IN FACT, I THINK COUGHED UP BLOOD ON OCCASION.

12 Q. IS THERE ANYTHING ABOUT THOSE SYMPTOMS, BASED ON  
13 THAT X-RAY, THAT WOULD LEAD YOU TO BELIEVE THAT THAT WAS A  
14 TUMOR THAT WAS ACTUALLY INSIDE THE LUNG, JUST BASED ON WHAT  
15 YOU KNEW AT THAT POINT IN TIME?

16 A. IT CAN'T BE RULED OUT, BASED ON THESE X-RAYS.  
17 HOWEVER, WHEN SOMEONE IS COUGHING UP BLOOD, I  
18 THINK YOU HAVE TO THINK IN TERMS OF SOMEONE HAVING A PROBLEM  
19 WITH THE WINDPIPE, AND CANCER IS COMMON.

20 I DON'T THINK IT'S UNREASONABLE AT THIS TIME TO  
21 THINK THAT CANCER OF THE LUNG HAS TO BE, SHALL WE SAY, IN  
22 THE DIFFERENTIAL DIAGNOSIS OF A PATIENT OF THINGS THAT COULD  
23 BE.

24 Q. IT CERTAINLY WOULD BE SOMETHING THAT A DOCTOR, IF  
25 HE HAD A PATIENT WITH THOSE SYMPTOMS IN THAT CHEST X-RAY,  
26 WOULD BE SUSPICIOUS OF?

27 A. ABSOLUTELY.

28 Q. WOULD IT BE ENOUGH FOR YOU TO DIAGNOSE LUNG  
JUDITH ANN OSSA, CSR NO. 2310

0027

1 CANCER AT THAT POINT?

2 A. WELL, THERE IS DIAGNOSIS AND DIAGNOSIS. IT'S  
3 ENOUGH FOR ME TO SAY IT'S HIGH ON THE LIST OF THINGS THAT  
4 SHE HAS. BUT OBVIOUSLY, YOU DON'T WANT TO PROCEED WITH ANY  
5 THERAPY BASED ONLY ON THAT HUNCH AT THIS TIME.

6 Q. SO WHAT WOULD -- WAS THERE SOMETHING ELSE THAT  
7 WAS THEN DONE AT OR ABOUT THAT TIME?

8 A. I BELIEVE A CAT SCAN WAS DONE ABOUT THE SAME  
9 TIME. A CAT SCAN IS DONE WITH A PATIENT LYING ON A TABLE  
10 AND BEING FED THROUGH A MACHINE THAT HAS A RING IN IT. AND  
11 AS THAT RING -- AS THE PATIENT IS BEING FED THROUGH THE RING  
12 ELECTRONICALLY, THE BODY IS BEING SLICED THIS WAY  
13 (INDICATING).

14 SO YOU ARE SEEING SLICES OF THE BODY, AND EACH  
15 SLICE IS ABOUT THE THICKNESS OF A SLICE OF BREAD, 10  
16 METERS. AND THEN IT'S MOUNTED -- THAT IMAGE, THAT  
17 INFORMATION ELECTRONICALLY IS SENT THROUGH A COMPUTER AND  
18 SCRAMBLED AND PUT BACK INTO AN ORDINARY X-RAY FILM, AS IF WE  
19 HAD SECTIONED THE BODY AND LOOKED UP FROM BELOW WITH THE  
20 EYES OF AN X-RAY MACHINE.

21 SO WHEN THAT HAPPENS, THIS IS THE IMAGE THAT YOU  
22 GET THROUGH THE NECK (INDICATING). THIS IS THE BACK, THIS  
23 IS THE FRONT, THIS IS THE RIGHT SIDE, THIS IS THE LEFT  
24 SIDE.

25 AND JUST AS ON THE PLAIN X-RAY, AIR IS BLACK AND  
26 BONES ARE WHITE. THIS IS BACKBONE, THIS IS THE SHOULDER  
27 SOCKET ON THE RIGHT SIDE, THIS IS THE SHOULDER SOCKET ON THE  
28 LEFT SIDE, THE COLLARBONE ON THE RIGHT SIDE, THE COLLARBONE  
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0028

1 ON THE LEFT SIDE, AND THIS IS THE WINDPIPE. THIS IS STILL  
2 UP IN THE NECK, ABOVE THE BREASTBONE AT THIS POINT.

3 EACH SECTION GOING DOWN HERE IS ANOTHER SLICE  
4 LOWER. AT THIS LEVEL HERE, FOR INSTANCE, YOU CAN JUST SEE  
5 THE TOP OF THE BREASTBONE. THIS IS THE RIGHT LUNG, THIS IS  
6 THE LEFT LUNG. THESE ARE THE BLOOD VESSELS IN THE CENTER OF  
7 THE CHEST. THIS IS THE BACKBONE AND SHOULDER BLADE ON THE  
8 RIGHT SIDE AND THE LEFT SIDE.

9 AT THIS LEVEL HERE, YOU JUST START TO SEE  
10 SOMETHING THAT SHOULDN'T BE THERE.  
11 Q. LET ME ASK YOU THIS: WHAT IMAGE IS THAT, FOR THE  
12 RECORD --  
13 A. IMAGE 6-C.  
14 Q. -- DOCTOR.  
15 A. 6 PLUS C.  
16 Q. HAVE YOU HAD A DEMONSTRATIVE EXHIBIT PREPARED  
17 THAT ACTUALLY HAS THESE PICTURES ON IT?  
18 A. YES, I DO.  
19 Q. WOULD IT BE HELPFUL IN DESCRIBING WHAT'S GOING ON  
20 TO USE IT TO DEMONSTRATE THAT?  
21 A. YES, IT WOULD.  
22 MR. OHLEMEYER: YOUR HONOR, I'D LIKE TO MARK  
23 THIS AS DEFENDANT'S NEXT IN ORDER.  
24 THE CLERK: DEFENDANT'S EXHIBIT 2802.  
25 (DOCUMENT MORE PARTICULARLY  
26 DESCRIBED IN THE INDEX MARKED  
27 FOR IDENTIFICATION DEFENDANT'S  
28 EXHIBIT # 2802)  
JUDITH ANN OSSA, CSR NO. 2310

0029

1 MR. OHLEMEYER: Q. AS WE GET STARTED HERE,  
2 DOCTOR, WHY DON'T YOU -- JUST SO WE CAN ORIENT IT, IF YOU  
3 WOULD WRITE NEXT TO EACH OF THESE PICTURES WHICH PART OF  
4 THAT CT SCAN IT RELATES TO.  
5 A. DO YOU WANT ME TO MARK ON IT?  
6 Q. YES, UNLESS YOU HAVE AN OBJECTION?  
7 MS. CHABER: I DON'T HAVE ANY OBJECTION.  
8 MR. OHLEMEYER: YES.  
9 MS. CHABER: THIS IS FOR DEMONSTRATIVE  
10 PURPOSES?  
11 MR. OHLEMEYER: CORRECT.  
12 THE WITNESS: THIS IS IMAGE 6 PLUS C, 7 PLUS C,  
13 8 PLUS C (MARKING EXHIBIT).  
14 MR. OHLEMEYER: Q. YOU'VE NUMBERED SIX THROUGH  
15 12 PLUS C?  
16 A. THAT'S CORRECT.  
17 Q. AND JUST SHOW US ON THE X-RAY OR THE CT SCAN  
18 FILMS WHICH ONES YOU'RE TALKING ABOUT.  
19 A. I'M TALKING ABOUT THESE IMAGES, 6, 7, 8, 9, 10,  
20 11, 12 AND 13. 6, 7, 8, 9, 10, 11, 12 AND 13. THESE ARE  
21 OBVIOUSLY ENLARGED.  
22 Q. AND WHAT IS IT ABOUT -- WHAT CAN YOU TELL ABOUT  
23 WHERE MS. HENLEY'S CANCER MIGHT HAVE STARTED, BASED ON YOUR  
24 REVIEW OF THOSE CT SCANS?  
25 A. WELL, LET ME START BY SAYING, CANCER OF THE LUNG  
26 HAS A CHARACTERISTIC APPEARANCE AND PATTERN OF SPREAD. YOU  
27 FIND SOMETHING IN THE LUNG, IN THE VAST MAJORITY OF CASES,  
28 AND WHEN IT SPREADS, IT USUALLY SPREADS TO LYMPH NODES.  
JUDITH ANN OSSA, CSR NO. 2310

0030

1 AND THOSE LYMPH NODES -- THOSE CANCERS DRAIN  
2 THROUGH CERTAIN LYMPH NODES IN A VERY PREDICTABLE WAY. NOT  
3 ENTIRELY ALL THE TIME 100 PERCENT PREDICTABLE, BUT THERE IS  
4 A MAPPING OF THE LYMPH NODES THAT ARE CHARACTERISTICALLY  
5 USED IN DRAINING THE LUNG NORMALLY, AND IT'S TO THOSE NODES  
6 THAT CANCER GOES.  
7 Q. DO YOU SEE THAT CHARACTERISTIC PATTERN IN THIS OR  
8 THESE CT SCANS?  
9 A. NO.  
10 Q. CAN YOU SHOW US -- CAN YOU COMPARE AND CONTRAST  
11 THE DIFFERENCES IN THIS CT SCAN COMPARED TO THE

12 CHARACTERISTIC PATTERN YOU TYPICALLY SEE IN A PATIENT WHO  
13 HAS A CANCER THAT STARTED IN THE LUNG?  
14 A. FIRST OF ALL, YOU WANT TO SEE SOMETHING IN THE  
15 LUNG AND BY CAT SCAN THAT CAN IDENTIFY SOMETHING DOWN TO THE  
16 SIZE OF A PEA, MAYBE SMALLER.  
17 THERE IS NOTHING IN THE CAT SCAN, NOTHING TO  
18 DEMONSTRATE A MASS OR A NODULE, OR ANYTHING THAT WOULD BE  
19 THE SITE OF ORIGIN FOR A LUNG CANCER.  
20 ON THIS, THE LYMPH NODES THAT CHARACTERISTICALLY  
21 DRAIN A LUNG CANCER ARE NOT NODES NEXT TO THAT MASS OR  
22 NODULE, AND THEN SPREAD UP THE TRACHEAL BRONCHIAL TREE IN A  
23 CHARACTERISTIC WAY.  
24 THOSE NODES ARE LOCATED AROUND THE WINDPIPE, ALL  
25 THE WAY UP THE CENTER OF THE CHEST, AND THOSE NODES ARE  
26 USUALLY INVOLVED UNTIL THE CANCER BREAKS INTO THE SYSTEM AND  
27 ESTABLISHES SITES OUTSIDE THE CHEST.  
28 Q. IS THERE ANY EVIDENCE IN MS. HENLEY'S CT SCANS OF  
JUDITH ANN OSSA, CSR NO. 2310

0031

1 INVOLVEMENT OF LYMPH NODES OR ABNORMALITIES IN THOSE LYMPH  
2 NODES?  
3 A. WELL, IN FACT, THE MASS IS SO LARGE THAT IT'S  
4 ALMOST HARD TO CONCEIVE THAT IT DOESN'T INVOLVE A LYMPH  
5 NODE, IF ONLY BY DIRECT GROWTH.  
6 DOWN HERE (INDICATING), RIGHT ON THE WINDPIPE, IT  
7 ALMOST CERTAINLY HAS BUMPED INTO A NODE. BUT THE MAJORITY  
8 OF THE MASS IS IN A REGION WHERE, CHARACTERISTICALLY, YOU  
9 MAY FIND A NODE, BUT IT DOESN'T USUALLY DRAIN THE LUNG.  
10 Q. ARE THERE ANY LYMPH NODES THAT APPEAR TO BE  
11 ABNORMAL AS A RESULT OF THE SPREAD OF A CANCER FROM ANYWHERE  
12 IN THE BODY?  
13 A. AS I SAY, DOWN HERE (INDICATING), WHEN IT'S  
14 VIRTUALLY BUMPING UP AGAINST THE WINDPIPE, IT HAS  
15 ENCOUNTERED AND MAYBE ENGULFED SOME LYMPH NODES.  
16 BUT MOST OF THE OTHER LYMPH NODES IN THE CHEST  
17 THAT ARE AROUND THE WINDPIPE ARE NOT EVEN SUSPICIOUS TO BE  
18 ENLARGED.  
19 Q. IN A TYPICAL CASE IN A CANCER THAT STARTED IN THE  
20 LUNG, WOULD YOU EXPECT TO FIND SUSPICIOUS THINGS IN THOSE  
21 LYMPH NODES?  
22 A. YES. THEY WOULD CERTAINLY BE ENLARGED.  
23 Q. WHAT ABOUT -- WHAT ELSE ABOUT THE APPEARANCE OF  
24 THIS TUMOR MAKES IT LOOK MORE OR LESS LIKE A TYPICAL CANCER  
25 THAT STARTED IN THE LUNG, BASED ON THE CT SCANS, IF  
26 ANYTHING?  
27 A. WELL, FIRST OF ALL, AS I SAID, THERE'S NOTHING  
28 THAT I CAN SEE THAT'S DEFINITIVE IN THE LUNG. THIS IS  
JUDITH ANN OSSA, CSR NO. 2310

0032

1 ACTUALLY IN THE CENTER OF THE CHEST (INDICATING). IT'S  
2 AGAINST VESSELS AND THE MAIN WINDPIPE, WHICH IS A PART OF  
3 THE CHEST WE CALL THE MEDIASTINUM, THAT PART BETWEEN THE  
4 LUNGS, FROM THE THORACIC INLET TO THE DIAPHRAGM, BETWEEN THE  
5 LUNGS, WHICH INCLUDES THE HEART AND THE ESOPHAGUS AND THE  
6 WINDPIPE AND THE LYMPH NODES.  
7 IN FRONT, YOU HAVE THE THYMUS GLAND OR RESIDUAL  
8 COMPONENTS OF THE THYMUS GLAND, AND ALL OF THOSE ARE  
9 COLLECTIVELY KNOWN AS THE MEDIASTINUM.  
10 THIS MASS IS LOCATED IN THE MEDIASTINUM  
11 (INDICATING). BUT FURTHERMORE, IN THE MEDIASTINUM, IT HAS  
12 SPREAD TO AN AREA -- IT'S INVOLVING AN AREA OF THE  
13 MEDIASTINUM RIGHT BEHIND THE BRESTBONE AND IN FRONT OF THE  
14 VESSELS, BUT NOT AROUND THE WINDPIPE, THE MAIN WINDPIPE

15 HERE, WHERE YOU WOULD ORDINARILY FIND THE LYMPH NODES.  
16 CHARACTERISTICALLY LOCATED IN THE ANTERIOR  
17 MEDIASTINUM IS THE THYMUS GLAND. SO THAT HAS TO BE SAID.  
18 THE OTHER IS THAT THIS MASS EXTENDS, IN FACT, TO  
19 THE RIGHT OF THE MIDLINE. AT THIS POINT HERE, YOU CAN SEE  
20 AT THIS POINT THAT IT IS TO THE RIGHT OF THE MIDLINE, THE  
21 MIDLINE BEING RIGHT HERE (INDICATING).  
22 Q. "MIDLINE" BEING WHAT? THE MIDLINE OF WHAT?  
23 A. THE MIDLINE OF THE BODY, GOING STRAIGHT DOWN HERE  
24 (INDICATING).  
25 SO THAT ALTHOUGH THE MAJORITY OF THE MASS IS IN  
26 THE LEFT CHEST, IT HAS GROWN SO LARGE THAT IT HAS CROSSED  
27 INTO THE RIGHT CHEST.  
28 Q. WHAT DOES THAT HAVE TO DO, IF ANYTHING, WITH THE  
JUDITH ANN OSSA, CSR NO. 2310

0033

1 QUESTION OF WHETHER OR IF THIS WAS A TUMOR THAT STARTED IN  
2 THE LUNG?  
3 A. WELL, IT SPEAKS TO THE FACT THAT THE THYMUS GLAND  
4 IS A MIDLINE STRUCTURE, AND THERE IS A RIGHT AND A  
5 LEFT-SIDED COMPONENT.  
6 LYMPH NODES CHARACTERISTICALLY THAT CONTAIN  
7 CANCER WILL BE ASSOCIATED WITH OTHER LYMPH NODES, OFTEN, AT  
8 LEAST INITIALLY, AS SEPARATE NODULES, AND IN TIME WILL  
9 COALESCE, BUT SELDOM IS IT ONE MASS THAT GROWS ACROSS THE  
10 MIDLINE.  
11 FURTHERMORE, THE CONTOUR OF THIS MASS IS  
12 EXTREMELY SMOOTH.  
13 Q. AND WHAT DOES THE CONTOUR OF THE MASS HAVE TO DO  
14 WITH TRYING TO DETERMINE WHERE IT MIGHT HAVE STARTED?  
15 A. WELL, THE CONTOUR IS SMOOTH, WHICH MEANS TO ME  
16 THAT IT'S RESPECTING SOME KIND OF BOUNDARY. A CANCER IN THE  
17 LUNG HAS TENTACLES, HAS CELL PROCESSES AS IT'S GROWING INTO  
18 THE SURROUNDING PORTION OF THE LUNG.  
19 AND THIS IS AGAINST THE LUNG, BUT IT IS NOT  
20 WITHIN THE LUNG. AND IN FACT, IT HAS A SMOOTH BORDER  
21 BETWEEN WHAT IS OBVIOUSLY TUMOR AND WHAT IS OBVIOUSLY LUNG.  
22 AND IT MAKES ME THINK THAT THERE IS SOME KIND OF  
23 CAPSULE OR NATURAL TISSUE BARRIER BETWEEN THE TUMOR AND THE  
24 LUNG ITSELF.  
25 Q. AND WHAT'S THE SIGNIFICANCE OF THAT?  
26 A. WELL, THE THYMUS IS A CAPSULE, AND IF THIS MASS  
27 WERE WITHIN THE LUNG, YOU WOULD EXPECT THIS MARGIN TO BE  
28 QUITE IRREGULAR. AND IF THIS MASS REPRESENTS A TUMOR IN THE  
JUDITH ANN OSSA, CSR NO. 2310

0034

1 THYMUS GLAND, IT WOULD AT LEAST INITIALLY RESPECT THAT  
2 CAPSULE BOUNDARY, UNTIL IT GROWS THROUGH.  
3 Q. DOCTOR, HAVE YOU ALSO HAD AN ARTIST TAKE THESE  
4 X-RAYS AND PREPARE A DEMONSTRATIVE EXHIBIT THAT WOULD HELP  
5 EXPLAIN WHERE THINGS ARE LOCATED?  
6 A. YES, I HAVE.  
7 MR. OHLEMEYER: LET ME MARK THAT AS THE  
8 DEFENDANT'S NEXT TWO IN ORDER YOUR HONOR.  
9 THE CLERK: DEFENDANT'S EXHIBIT 2803.  
10 (DOCUMENT MORE PARTICULARLY  
11 DESCRIBED IN THE INDEX MARKED  
12 FOR IDENTIFICATION DEFENDANT'S  
13 EXHIBIT # 2803)  
14 MR. OHLEMEYER: ACTUALLY, THE NEXT THREE IN  
15 ORDER.  
16 THE CLERK: AND 2804 AND 2805.  
17 (DOCUMENTS MORE PARTICULARLY



18 DESCRIBED IN THE INDEX MARKED  
19 FOR IDENTIFICATION DEFENDANT'S  
20 EXHIBITS # 2804 AND 2805)  
21 THE COURT: TATSUO, ONE MINUTE AGO, DID YOU SAY  
22 2802?  
23 HOW DID WE GET FROM 2802 TO 2843? DID I  
24 MISHEAR?  
25 MR. OHLEMEYER: I HAVE 03, 04, 05 HERE, YOUR  
26 HONOR.  
27 THE COURT: I THOUGHT TATSUO SAID 2843.  
28 THE CLERK: 2803.  
JUDITH ANN OSSA, CSR NO. 2310  
0035  
1 THE COURT: OKAY. 2803, 2804 AND 2805?  
2 THE CLERK: YES.  
3 THE COURT: I MISSED THAT.  
4 IS THERE ANY OBJECTION TO THOSE?  
5 MR. OHLEMEYER: THEY ARE FOR DEMONSTRATIVE  
6 PURPOSES.  
7 THE COURT: ANY OBJECTION?  
8 MS. CHABER: NOT FOR DEMONSTRATIVE PURPOSES.  
9 THE COURT: OKAY. YOU MAY PROCEED.  
10 MR. OHLEMEYER: Q. REFERRING TO THE NUMBER ON  
11 IT, DOCTOR, WHY DON'T YOU DESCRIBE FOR US WHAT IT REPRESENTS  
12 WITH RESPECT TO WHAT WE'RE SEEING ON THE X-RAY BOX.  
13 A. THIS X-RAY (INDICATING) IS THE SAME AS THAT  
14 X-RAY. IT IS TAKEN FROM A NEGATIVE OF THIS X-RAY. IT IS  
15 THE SAME PICTURE. IT IS SLIGHTLY ENLARGED FOR THE PURPOSES  
16 OF DEMONSTRATION.  
17 AND THIS IS A DRAWING OF THE VARIOUS STRUCTURES  
18 IN THE CHEST THAT I CAN PROJECT, BASED UPON THE FINDINGS OF  
19 THE CAT SCAN.  
20 AND WE'LL CALL THIS THE RIGHT LUNG AND THIS IS  
21 THE LEFT LUNG, THIS IS THE HEART, THIS IS THE MAIN WINDPIPE  
22 THAT SPLITS HERE. HALF GOES TO THE RIGHT SIDE, HALF GOES TO  
23 THE LEFT SIDE. THAT IS THE MAIN BLOOD VESSEL FROM THE  
24 HEART, THE AORTA THAT FEEDS THE REST OF THE BODY. THIS IS  
25 THE MAIN BLOOD VESSEL FROM THE RIGHT SIDE OF THE HEART.  
26 THIS PART GOES TO THE RIGHT LUNG AND THIS PART GOES TO THE  
27 LEFT LUNG.  
28 AND AT THIS POINT HERE, THE MAIN BLOOD VESSELS  
JUDITH ANN OSSA, CSR NO. 2310  
0036  
1 PINCH OFF. THERE IS VIRTUALLY NO BLOOD FLOWING TO THE RIGHT  
2 OR TO THE LEFT LUNG BECAUSE OF THE MASS.  
3 THE MASS IS LOCATED RIGHT HERE. IT HAS A VERY  
4 SMOOTH MARGIN. IT IS ON TOP OF EVERYTHING. IT IS AROUND  
5 IT. IT IS BETWEEN THE BREASTBONE, WHICH IS IN FRONT OF THE  
6 EXHIBIT, AND THE WINDPIPE BACK HERE. AND THE MAIN BLOOD  
7 VESSELS IT HAS LYING RIGHT BEHIND THE BREASTBONE.  
8 Q. CAN I INTERRUPT YOU FOR A MINUTE, DOCTOR.  
9 OBVIOUSLY YOU WEREN'T INVOLVED IN MS. HENLEY'S  
10 DIAGNOSIS OR TREATMENT; RIGHT?  
11 A. CORRECT.  
12 Q. HOW IS IT THAT YOU KNOW OR CAN SAY WHERE THE MASS  
13 WAS WITH RESPECT TO THESE OTHER ORGANS?  
14 A. WELL, YOU CAN TELL THAT FROM THE CAT SCAN AND THE  
15 CHEST X-RAY.  
16 Q. I'M SORRY. THEN EXPLAIN FOR US WHAT OTHER  
17 SIGNIFICANT GEOGRAPHY OR ANATOMY IS THERE.  
18 A. I'D LIKE TO SHOW THE SIDE VIEW. I THINK THAT  
19 WILL BE OF VALUE AS WELL.  
20 Q. WHICH IS NUMBER 2804.

21 A. THE SIDE VIEW, THIS IS THE CHEST X-RAY TAKEN ON  
22 THE SAME DAY. AND AS BEFORE, IT HAS BEEN ENLARGED TO MATCH  
23 THE SIZE OF THE DRAWING.  
24 AND ONCE AGAIN, THE MASS IS FOUND IN THIS REGION  
25 RIGHT HERE (INDICATING), ACCORDING TO THE MASS THAT I SEE IN  
26 THIS REGION RIGHT HERE. IT LIES OVER THE TOP OF THE  
27 VESSELS, AND IT COMES DOWN ONTO THE WINDPIPE. IT PINCHES  
28 OFF -- IN FACT, IT SURROUNDS THE BLOOD VESSEL FEEDING BLOOD  
JUDITH ANN OSSA, CSR NO. 2310

0037

1 FROM THE HEART TO THE LEFT LUNG, AND THAT HELPS TO PINPOINT  
2 WHERE THE MASS IS.  
3 BUT NOTE ALSO THAT THERE IS A NERVE HERE THAT IS  
4 INDICATED IN YELLOW THAT RUNS BEHIND THE MASS AND BACK UP  
5 BESIDE THE WINDPIPE.  
6 Q. WHAT NERVE IS THAT?  
7 A. THAT IS THE LEFT RECURRENT LARYNGEAL NERVE.  
8 Q. AND WHAT, IF ANYTHING, IS SIGNIFICANT ABOUT WHERE  
9 THE TUMOR IS COMPARED TO WHERE THE NERVE IS?  
10 A. WELL, CHARACTERISTICALLY, THERE IS A SET OF LYMPH  
11 NODES LOCATED RIGHT ON THE NERVE. AND CHARACTERISTICALLY,  
12 THOSE NODES ARE INVOLVED IN THE DRAINAGE OF UPPER LOBE  
13 TUMORS.  
14 Q. UPPER LOBE OF THE LUNG?  
15 A. OF THE LUNG.  
16 AND WHEN THAT NODE IS INVOLVED WITH CANCER, IT  
17 OFTEN EARLY ON PINCHES OFF THE NERVE. IT INVOLVES THE  
18 NERVE, IT INVADES THE NERVE.  
19 AND THIS IS WHY I SAID WHAT I DID ABOUT A PATIENT  
20 PRESENTING WITH A HOARSE VOICE. THAT'S THE NERVE THAT I'VE  
21 BEEN REFERRING TO AS A RECURRENT LARYNGEAL PALSY.  
22 Q. IS THERE ANY EVIDENCE ON THE CT SCANS THAT THAT  
23 NERVE IS INVOLVED OR BEING AFFECTED ABNORMALLY BY ANYTHING  
24 IN THE BODY AT THIS POINT?  
25 A. WELL, IT CERTAINLY IS IN THE REGION. BUT THE  
26 REASON THAT I SHOWED IT SPARED IS THAT THERE WAS NOTHING IN  
27 THE CLINICAL RECORD TO INDICATE THAT THE PATIENT HAD ANY  
28 PROBLEM WITH HER VOICE.

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0038

1 Q. DO CANCERS THAT BEGIN IN THE LUNG TYPICALLY NOT  
2 SPARE THAT NERVE?  
3 A. LUNG CANCERS CHARACTERISTICALLY THAT ARE UPPER  
4 LOBE --LEFT UPPER LOBE OF THE LUNG DRAIN INTO LYMPH NODES  
5 AROUND THAT NERVE.  
6 AND CHARACTERISTICALLY -- NOT ALWAYS, BUT USUALLY  
7 WHEN THAT NERVE -- WHEN THOSE NODES ARE INVOLVED, THEY CAN  
8 PINCH OFF THAT NERVE.  
9 Q. LET ME ASK YOU TO ASSUME, DOCTOR, THAT THERE HAS  
10 BEEN SOME TESTIMONY IN THE CASE THAT MS. HENLEY'S VOICE --  
11 THAT SHE PERCEIVED HER VOICE TO BE GETTING LOWER WITHIN A  
12 FEW MONTHS OF THE TIME SHE WAS DIAGNOSED WITH HER CANCER.  
13 IS THAT THE TYPE OF HOARSENESS YOU WERE  
14 DESCRIBING?  
15 A. NO. I'M DESCRIBING A HOARSENESS, NOT A PITCH.  
16 I'M DESCRIBING, IF I CAN DEMONSTRATE, A VOICE LIKE THAT THAT  
17 CRACKS (DEMONSTRATING), THAT CAN'T PROJECT.  
18 IN FACT, PATIENTS SOMETIMES HAVE DIFFICULTY  
19 SWALLOWING. BUT WHEN WE SWALLOW, THE FIRST THING WE DO IS  
20 WE CLOSE OUR VOICE BOX OFF.  
21 AND WITH THE PARALYZED NERVE, THEY HAVE NOT ONLY  
22 A HOARSENESS BUT SOMETIMES DIFFICULTY IN SWALLOWING. AND I  
23 COULDN'T SEE ANYTHING IN THE RECORD THAT THE PATIENT WAS

24 ACTUALLY CHOKING OR COULDN'T PROJECT HER VOICE OR HAD ANY  
25 HOARSENESS IN THAT SENSE.  
26 Q. WHAT ELSE, IF ANYTHING, IS SIGNIFICANT ABOUT THIS  
27 X-RAY WITH RESPECT TO THE QUESTION OF WHERE THE TUMOR BEGAN?  
28 A. ONCE AGAIN, IT HAS A SMOOTH MARGIN ON THIS TUMOR,  
JUDITH ANN OSSA, CSR NO. 2310

0039

1 AS WE KNOW FROM THE CAT SCAN, AND IT EXTENDS UP FRONT,  
2 BEHIND THE BREASTBONE. AND THAT'S NOT WHERE LYMPH NODES ARE  
3 THAT DRAIN THE LUNG.  
4 Q. AND THEN, YOU HAVE ANOTHER DRAWING THAT PUTS THEM  
5 SIDE TO SIDE. THAT'S 2805.  
6 A. IN FACT, WHAT I MIGHT SUGGEST IS THAT IF YOU WERE  
7 TO DRAW WHERE THE THYMUS WOULD BE LOCATED, IT WOULD BE  
8 LOCATED IN THIS REGION HERE (INDICATING).  
9 Q. THAT'S WHAT THE YELLOW OVERLAY REPRESENTS THAT  
10 YOU JUST PUT UP THERE?  
11 A. THE YELLOW OVERLAY REPRESENTS THE LOCATION OF A  
12 NORMAL THYMUS. IT IS NOT DRAWN FROM ANY ANATOMIC  
13 BOUNDARIES, BUT IT IS DRAWN FROM THE SITE WHERE THE THYMUS  
14 FREQUENTLY IS LOCATED. THE THYMUS HAS BEEN FOUND RESTING UP  
15 IN THE CHEST. IT HAS BEEN FOUND RESTING DOWN ON THE  
16 DIAPHRAGM. IT IN FACT HAS BEEN FOUND -- IN ONE CASE, A  
17 TUMOR ON THE THYMUS UNEQUIVOCALLY WAS FOUND WITHIN THE LEFT  
18 LUNG.  
19 ALL OF THOSE ARE SOMEWHAT UNUSUAL. BUT THIS IS  
20 THE USUAL LOCATION OF THE THYMUS GLAND (INDICATING).  
21 Q. WHAT DETERMINES WHERE YOU FIND IT? WHAT  
22 DETERMINES WHERE YOU FIND A NORMAL THYMUS IN A TYPICAL  
23 PERSON?  
24 A. WELL, EVERYBODY IS BORN WITH A THYMUS GLAND. IT  
25 ARISES FROM ELEMENTS IN THE NECK AND DESCENDS BEHIND THE  
26 BREASTBONE IN EMBRYOLOGY, WHEN WE'RE BEING DEVELOPED IN THE  
27 UTERUS.  
28 HOW FAR IT GOES -- AS YOU KNOW, THIS IS THE USUAL  
JUDITH ANN OSSA, CSR NO. 2310

0040

1 LOCATION. BUT WHY SOMETIMES IT GOES FURTHER DOWN AND OTHER  
2 TIMES RESTS OR IS FOUND UP IN THE NECK, I DON'T THINK  
3 ANYBODY KNOWS.  
4 Q. WE ALSO HEARD TESTIMONY ABOUT WHAT'S CALLED  
5 "INVOLUTED THYMUS."  
6 WHAT DOES THAT MEAN?  
7 A. IN NORMAL PEOPLE, THE THYMUS, BY THE TIME WE'RE  
8 TEENAGERS, HAS DONE ITS JOB, WHICH IS EDUCATING LYMPHOCYTES  
9 TO KNOW HOW TO RECOGNIZE CELLS VERSUS SOMETHING ELSE.  
10 "SOMETHING ELSE" BEING, FOR INSTANCE, CERTAIN TYPES OF  
11 INFECTIONS OR AN ORGAN TRANSPLANT.  
12 AND SO AS TIME GOES BY, THEY HAVE BEEN EDUCATED.  
13 THE THYMUS HAS ESSENTIALLY DONE ITS JOB, AND IT SIMPLY  
14 SHRIVELS UP.  
15 AND SO USUALLY, YOU DON'T SEE A THYMUS ON A CHEST  
16 X-RAY OR A CAT SCAN. IF YOU CAN, IT'S PROBABLY ENLARGED AND  
17 ABNORMAL.  
18 Q. IN MS. HENLEY'S CHEST X-RAY OR CT SCANS, CAN YOU  
19 OBSERVE A THYMUS OR A RESIDUAL THYMUS?  
20 A. NO, I CAN'T. THERE ARE -- THERE ARE SOME  
21 TISSUES -- THERE ARE SOME IMAGES -- SOME OTHER IMAGES -- I'M  
22 SORRY -- THAT SUGGEST THAT THERE MAY BE SOME FAT IN THE  
23 MEDIASTINUM, WHICH IS USUALLY FOUND.  
24 BUT NOTHING THAT YOU CAN SAY "YES, THERE IS  
25 RESIDUAL THYMUS. THEREFORE, THERE MUST BE SOME OBVIOUS  
26 ABNORMALITY IN THE THYMUS."

27 Q. WHAT IS THE RELATIONSHIP BETWEEN THE FINDING OF  
28 RESIDUAL THYMUS OR THE LACK THEREOF AND THE POSSIBILITY THAT  
JUDITH ANN OSSA, CSR NO. 2310

0041

1 A TUMOR, IN PARTICULAR, THIS TUMOR WAS ONE THAT MIGHT HAVE  
2 STARTED IN THE THYMUS?

3 A. PROBABLY NONE. IF YOU HAVE -- IF YOU CAN SEE ANY  
4 THYMUS, IT MAKES YOU WONDER WHETHER THERE'S SOME OTHER  
5 DISEASE PROCESS GOING ON.

6 BUT THE MASS IS FAIRLY WELL DEMARCATED. IT  
7 DOESN'T SEEM TO BE EXTENDING THROUGH THE REST OF THE THYMUS  
8 GLAND, AND THAT'S USUALLY THE CASE. SOMETIMES YOU CAN FIND  
9 TUMORS THAT HAVE GROWN FROM A THYMUS THAT LOOKS LIKE IT IS  
10 STARTING TO ACT UP AGAIN, AS IF IT'S BECOME REACTIVATED BY  
11 SOMETHING. I HAVE NO IDEA WHAT.

12 AND SO FINDING A THYMIC TUMOR ISN'T  
13 PARTICULARLY -- THINGS CALLED THYMOMAS IN THE PRESENCE OF  
14 HYPERPLASTIC THYMUS IS NOT UNCOMMON, BUT I DON'T SEE THAT  
15 PARTICULAR SCENARIO HERE.

16 Q. SO IF I UNDERSTAND WHAT YOU ARE SAYING, THE  
17 PRESENCE OF A THYMUS OR A PORTION OF THE THYMUS DOESN'T MAKE  
18 IT MORE OR LESS LIKELY THAT YOU CAN HAVE A TUMOR THAT  
19 STARTED IN SOME PART OF THE THYMUS?

20 A. STATISTICALLY, YES. IF IT'S ABSENT, IT DOESN'T  
21 MEAN IT'S LESS LIKELY. IF IT'S PRESENT, IT MEANS THAT IT IS  
22 MORE LIKELY.

23 Q. AND THEN, DESCRIBE FOR US WHAT YOU'VE DONE HERE  
24 ON 2805.

25 A. THIS EXHIBIT SHOWS WHERE THE LYMPH NODES ARE  
26 USUALLY LOCATED. THE GREEN LYMPH NODES ARE THE LYMPH NODES  
27 THAT ARE VISIBLE. THE BROWN ONES ARE THE ONES THAT ARE  
28 TUCKED BEHIND VESSELS. AND YOU CAN SEE THAT,  
JUDITH ANN OSSA, CSR NO. 2310

0042

1 CHARACTERISTICALLY, THEY ARE LOCATED AROUND THE WINDPIPE  
2 FROM THE FRONTAL VIEW, AND ON THE SIDE VIEW.

3 NOTE ALSO THAT THIS LYMPH NODE HERE ON THE NERVE  
4 (INDICATING) IS THE LYMPH NODE THAT I WAS COMMENTING ON  
5 BEFORE. AND THE MASS APPARENTLY HAS SPARED THAT REGION  
6 BECAUSE IT IS AN ANTERIOR MASS.

7 Q. AND AGAIN, WHAT SIGNIFICANCE DOES THAT HAVE IN  
8 TRYING TO DETERMINE WHETHER THIS WAS A TUMOR THAT STARTED IN  
9 THE LUNG?

10 A. WELL, IF THERE WERE ENLARGED LYMPH NODES, YOU MAY  
11 POSTULATE -- PARTICULARLY IF THE LYMPH NODES IN A PARTICULAR  
12 DRAINAGE PATTERN WERE ENLARGED, YOU MAY WANT TO WONDER  
13 WHETHER THERE'S SOMETHING GOING ON IN THE LUNG THAT WOULD  
14 DIRECT YOUR ATTENTION AT THE TIME OF BRONCHOSCOPY TO TAKE  
15 SAMPLES FROM THAT PART OF THE LUNG, OR TO LOOK MORE  
16 CAREFULLY AT THE X-RAY AT THAT PORTION OF THE LUNG.

17 Q. ALL RIGHT. DOCTOR, I THINK YOU CAN PROBABLY TAKE  
18 YOUR SEAT. AND IF YOU WANT TO REFER TO THIS FOR ANY OF THE  
19 OTHER QUESTIONS I ASK, I WILL PULL IT UP FOR YOU. MAYBE IT  
20 WOULD BE EASIER FOR YOU NOW TO TAKE YOUR SEAT.

21 A. THIS OVERLAY IN FACT IS WHERE YOU WOULD FIND THE  
22 THYMUS ON THE FRONTAL VIEW.

23 Q. THAT IS THE 2803, EXHIBIT 2803.  
24 IS WHAT YOU ARE REFERRING TO NOW?

25 A. THAT'S CORRECT.

26 Q. DOCTOR, LET ME ASK YOU THIS QUESTION: YOU'VE  
27 REVIEWED THE MEDICAL RECORDS, INCLUDING THE PATHOLOGY REPORT  
28 IN THIS CASE; RIGHT?

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0043

1 A. YES, I HAVE.

2 Q. AND THAT WAS THE REPORT OF THE DOCTOR WHO WAS  
3 ASKED TO LOOK AT THE BIOPSY THAT WAS TAKEN?

4 A. THAT'S CORRECT.

5 Q. AM I CORRECT THAT THE -- YOU TELL ME -- WHERE WAS  
6 THE TISSUE TAKEN THAT WAS SUBMITTED FOR THE BIOPSY?

7 A. THE OPERATIVE NOTE IS RATHER BRIEF. I CAN'T TELL  
8 YOU EXACTLY WHERE IT IS, BUT I CAN TELL YOU THE MOST LIKELY  
9 AREA THAT IT WAS TAKEN, AND THAT IS IN THE SAFEST AREA TO  
10 BIOPSY, THAT IS THE PART BEHIND THE BREASTBONE, UP FRONT  
11 (INDICATING), NOT DOWN AT THE ROOTS OF THE LUNG WHERE THE  
12 TUMOR HAS BEEN INVOLVING BLOOD VESSELS AND WHERE IT IS CLOSE  
13 TO NERVES.

14 Q. IS THERE ANY DOUBT IN YOUR MIND OR ANY QUESTION  
15 AS TO WHETHER THIS BIOPSY WAS TAKEN FROM INSIDE THE LUNG OR  
16 OUTSIDE THE LUNG?

17 A. OH, IT WAS TAKEN FROM OUTSIDE THE LUNG.

18 Q. AND THAT'S SOMETHING THAT YOU CAN DETERMINE FROM  
19 READING THE OPERATIVE REPORT?

20 A. NOT ONLY THAT, BUT IF THERE WERE A BIOPSY DONE  
21 INSIDE THE LUNG, THE LUNG, BEING A SPONGE-LIKE STRUCTURE,  
22 WOULD LEAK AIR. AND AT THE END OF THE OPERATION, IT WOULD  
23 CONTINUE TO LEAK AIR, AND YOU'D HAVE A COLLAPSED LUNG IN THE  
24 VAST MAJORITY OF CASES.

25 IN FACT, IT WOULD BE STANDARD PROCEDURE IF YOU  
26 TOOK A BIOPSY OF THE LUNG TO LEAVE A TUBE INSIDE FOR AT  
27 LEAST A COUPLE OF DAYS TO LET THE LUNG SEAL UP.

28 AND I KNOW, IN FACT, THAT IN THIS OPERATION, THAT  
JUDITH ANN OSSA, CSR NO. 2310

0044

1 ONE WASN'T LEFT IN. ONE WAS DONE TO EVACUATE AIR THAT MAY  
2 HAVE ENTERED THE CHEST AT THE TIME OF THE PROCEDURE, BUT  
3 THERE WAS NO CONTINUING AIR LEAK.

4 AND IN FACT, IN THE X-RAYS AFTER THE OPERATION,  
5 THERE WAS NO EVIDENCE OF AIR LEAKING FROM THE SURFACE OF THE  
6 LUNG. SO THIS WAS NOT A BIOPSY OF THE LUNG ITSELF.

7 Q. HAVE YOU PERFORMED PROCEDURES CALLED  
8 MEDIASTINOTOMIES AND MEDIASTINOSCOPIES?

9 A. OH, YES.

10 Q. THAT'S SOMETHING DIFFERENT THAN A BRONCHOSCOPY?

11 A. YES.

12 Q. THE BIOPSY IN THIS CASE WAS OBTAINED THROUGH A  
13 MEDIASTINOTOMY?

14 A. THAT'S CORRECT.

15 Q. YOU DON'T DISAGREE WITH THE PATHOLOGICAL  
16 DIAGNOSIS OF SMALL CELL CARCINOMA, DO YOU?

17 A. NO, NOT AT ALL.

18 Q. BASED ON YOUR REVIEW OF THE AVAILABLE RECORDS AND  
19 BASED ON YOUR REVIEW OF THE CT SCANS AND BASED ON YOUR  
20 REVIEW OF THE X-RAYS, DO YOU HAVE AN OPINION AS TO WHETHER  
21 IT'S MORE OR LESS LIKELY THAT THIS WAS A TUMOR THAT ACTUALLY  
22 STARTED IN A BRONCHUS OR IN AN AIRWAY OF THE LUNG?

23 A. I THINK THE FIRST REASONABLE IMPRESSION IS THAT  
24 THIS MAY BE LUNG. CERTAINLY LOOKING AT THE CHEST X-RAY AND  
25 HEARING THAT SOMEBODY HAS PRESENTED COUGHING UP SOME BLOOD,  
26 I THINK THAT HAS TO RUN ACROSS YOUR MIND.

27 BUT THE MORE I LOOKED AT THE CASE, WHERE NOTHING  
28 APPEARED ON THE CHEST X-RAY IN THE LUNG, NOTHING ON THE CAT  
JUDITH ANN OSSA, CSR NO. 2310

0045

1 SCAN THAT WAS WITHIN THE LUNG, A SPUTUM CYTOLOGY WAS  
2 NEGATIVE, DESPITE THE FACT THAT SHE IS COUGHING UP BLOOD,

3 AND A BRONCHOSCOPY WAS PERFORMED WHICH FAILED TO REVEAL ANY  
4 EVIDENCE OF TUMOR IN THE WINDPIPE, I THINK IT'S REASONABLE  
5 TO QUESTION WHETHER OR NOT THAT PRESUMPTION IS ACCURATE,  
6 ESPECIALLY SINCE WE KNOW THAT SMALL CELL CARCINOMA CAN ARISE  
7 ELSEWHERE.

8 AND IN THIS CASE, WITHIN THE THYMUS GLAND SEEMS  
9 TO BE MORE LIKELY, MUCH MORE LIKELY, THAN TO HAVE ARISED  
10 (SIC) IN -- THAT THE TUMOR TO HAVE ARISED WITHIN THE LUNG.

11 Q. YOU MENTIONED SOMETHING CALLED SPUTUM CYTOLOGY.  
12 WHAT IS SPUTUM CYTOLOGY, AND HOW DOES IT BEAR ON  
13 THE ISSUE OF WHERE MS. HENLEY'S CANCER MIGHT HAVE STARTED?

14 A. WELL, SPUTUM CYTOLOGY IS THE ANALYSIS OF SPUTUM  
15 UNDER A MICROSCOPE, LOOKING AT INDIVIDUAL CELLS IN MUCUS  
16 THAT'S COUGHED UP BY ALL OF US, IN FACT.

17 AND IT IS MORE VALUABLE IN PATIENTS WHO HAVE  
18 CANCER CELLS THAT ARE BEING SHED INTO THE WINDPIPE OR INTO  
19 THE LINING OF THE WINDPIPE, WHICH YOU WOULD EXPECT WOULD BE  
20 THE CASE OF SOMEONE WHO IS COUGHING UP BLOOD THAT HAS  
21 SOMETHING GOING ON. IT IS MORE VALUABLE IN A CENTRAL TUMOR,  
22 WHICH SMALL CELL CARCINOMA TENDS TO BE.

23 BY THAT, I MEAN ONE NEAR THE ROOT OF THE LUNG  
24 (INDICATING), AS OPPOSED TO ONE WAY OUT ON THE SURFACE OF  
25 THE LUNG, WHERE YOU MAY EXPECT THEY WOULDN'T BE COUGHING UP  
26 BLOOD, AND THE SPUTUM CYTOLOGY WOULD BE NEGATIVE.

27 Q. A SMALL CELL CARCINOMA THAT YOU SUSPECT STARTED  
28 IN THE LUNG OR IN AN AIRWAY, IN A BRONCHUS, WOULD YOU EXPECT

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1 TO SEE A POSITIVE SPUTUM CYTOLOGY?

2 A. I WOULD EXPECT THAT IN 50 PERCENT OF CASES, YOU  
3 WOULD HAVE A POSITIVE CYTOLOGY.

4 IN THIS PARTICULAR SCENARIO, YES.

5 Q. AND IN THIS CASE, IT WAS NEGATIVE?

6 A. THAT'S CORRECT.

7 Q. DOCTOR, CAN YOU SAY WITH ANY -- WELL, LET'S PUT  
8 IT THIS WAY: CAN YOU SAY WITH ANY REASONABLE CERTAINTY  
9 WHERE THIS TUMOR BEGAN, IF IT DIDN'T BEGIN IN THE LUNG?

10 A. WELL, FOR THE REASONS THAT I PRESENTED, ITS  
11 LOCATION, ITS SMOOTH CONTOUR, ITS SPARING THE RECURRENT  
12 LARYNGEAL NERVE, DESPITE REACHING THE SIZE OF OVER 6  
13 CENTIMETERS, NONE OF THE LYMPH NODES ARE ENLARGED, WHERE YOU  
14 WOULD EXPECT THEM TO BE ENLARGED -- AND THIS IS THE ONLY  
15 EVIDENCE OF THE TUMOR -- I THINK IT'S REASONABLE TO THINK OF  
16 SOMETHING ARISING WITHIN THE THYMUS GLAND.

17 Q. AND IF THIS WERE A TUMOR THAT STARTED SOMEWHERE  
18 OTHER THAN THE LUNG BUT WAS FOUND WHERE IT WAS FOUND IN THE  
19 CHEST, WITH THE CHARACTERISTICS AND SYMPTOMS YOU'VE  
20 DESCRIBED, IN YOUR EXPERIENCE, WOULD IT HAVE BEEN TREATED  
21 THE SAME WAY AS ONE THAT MIGHT HAVE STARTED IN THE LUNG?

22 A. OH, YES.

23 Q. WHY IS THAT?

24 A. WELL, SMALL CELL CARCINOMA IS A PARTICULARLY  
25 AGGRESSIVE TUMOR, AND RARELY DOES IT LEND ITSELF TO PRIMARY  
26 SURGICAL RESECTION.

27 Q. WHAT DO YOU MEAN BY "PRIMARY SURGICAL RESECTION"?

28 A. I MEAN THAT THE FIRST LINE OF THERAPY WOULD BE TO

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0047

1 CUT IT OUT, TO TAKE IT OUT COMPLETELY, AS OPPOSED TO GIVING  
2 THE PATIENT CHEMOTHERAPY AND RADIATION THERAPY, AND SOMETIME  
3 SUBSEQUENTLY, OPERATING AND TAKING IT OUT, AFTER IT'S BEEN  
4 SHRUNK DOWN BY THE CHEMO AND RADIATION THERAPY.

5 MR. OHLEMEYER: YOUR HONOR, THOSE ARE ALL THE

6 QUESTIONS I HAVE.  
7 THANK YOU, DOCTOR.  
8 THE COURT: OKAY. MS. CHABER.  
9 MS. CHABER: ARE WE GOING TO TAKE A BREAK?  
10 THE COURT: DO YOU WANT TO TAKE A BREAK?  
11 MS. CHABER: YES.  
12 THE COURT: OKAY. JURORS, LET'S TAKE A  
13 20-MINUTE RECESS UNTIL 25 MINUTES OF 4:00. PLEASE CONTINUE  
14 TO FOLLOW THE ADMONITION. WE'LL SEE YOU BACK AT 25 MINUTES  
15 TO 4:00.  
16 (RECESS TAKEN FROM 3:15 TO 3:35 P.M.)  
17 THE COURT: I THINK WE'RE READY TO PROCEED.  
18 MS. CHABER.  
19 IS IT HELPFUL OR NOT TO HAVE THAT BOARD THERE?  
20 IF NOT, I'D JUST AS SOON MOVE IT.  
21 MS. CHABER: I MAY USE SOME OF THIS.  
22 THE COURT: IF YOU ARE GOING TO USE IT, KEEP THE  
23 STAND.  
24 MS. CHABER: THE STAND IS NOT IN THE WAY, IS  
25 IT?  
26 THE COURT: THAT'S FINE. OKAY.  
27

28 CROSS-EXAMINATION  
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0048

1 BY MS. CHABER: Q. DR. WARREN, WE'VE MET ONCE  
2 BEFORE?  
3 A. YES, WE HAVE.  
4 Q. WHEN I TOOK YOUR DEPOSITION?  
5 A. YES, MA'AM.  
6 Q. YOU PREPARED NO NOTES IN THIS CASE?  
7 A. NO.  
8 Q. NO REPORT?  
9 A. NO.  
10 Q. YOU DIDN'T REVIEW THE REPORTS OF ANY OTHER  
11 EXPERTS IN THIS CASE?  
12 A. I REVIEWED A DEPOSITION OF DR. HAGEN.  
13 Q. DID YOU REVIEW ANY REPORTS WHERE PEOPLE SET FORTH  
14 WHAT THEY HAD REVIEWED, WHAT THEIR FINDINGS WERE, WHAT THEIR  
15 CONCLUSIONS WERE, WHAT THE BASIS OF THOSE CONCLUSIONS WERE?  
16 DID YOU REVIEW ANYTHING LIKE THAT IN THIS CASE?  
17 A. I REVIEWED THE HOSPITAL RECORDS AND THE OFFICIAL  
18 X-RAY REPORTS, AND WHAT I WAS PROVIDED BY MY ATTORNEYS.  
19 Q. AND THEY DID NOT PROVIDE YOU, IF THERE ARE ANY,  
20 ANY REPORTS FROM DR. HORN OR A DR. FEINGOLD OR A DR. HAMMAR?  
21 A. I BELIEVE I -- I CAN ONLY TELL YOU THAT I READ  
22 WHAT I WAS GIVEN, AND I DON'T REMEMBER ALL THE NAMES OF WHO  
23 SAID WHAT.  
24 Q. AND YOU BROUGHT THE MATERIALS THAT YOU WERE GIVEN  
25 AND HAD REVIEWED TO YOUR DEPOSITION?  
26 A. YES.  
27 Q. AND AT YOUR DEPOSITION, IS IT FAIR TO SAY THAT IF  
28 YOU HAD READ THE REPORTS OF DR. HORN, DR. FEINGOLD AND DR.

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0049

1 HAMMAR, YOU WOULD HAVE TOLD ME THAT?  
2 A. AS WE DISCUSSED AT THE DEPOSITION, I THINK I  
3 ITEMIZED EVERYTHING THAT I REVIEWED.  
4 Q. AND DO I UNDERSTAND CORRECTLY THAT THE WAY YOU  
5 GOT INVOLVED IN THIS CASE WAS THAT DR. GOULD, WHO PRACTICES  
6 AT YOUR HOSPITAL AS WELL, BROUGHT YOU INTO IT?  
7 A. I BELIEVE THAT THE GENTLEMAN FROM SHOOK, HARDY &  
8 BACON ORIGINALLY DISCUSSED THIS CASE WITH DR. GOULD, AND IT

9 WAS HIS SUGGESTION THAT THEY CONTACT ME, BUT IT WAS THEY WHO  
10 CONTACTED ME.

11 Q. AND DR. GOULD, YOU'RE AWARE, HAS TESTIFIED ON A  
12 NUMBER OF OCCASIONS FOR SHOOK, HARDY & BACON, AND THE  
13 CIGARETTE MANUFACTURERS THAT THEY REPRESENT?

14 A. I'M AWARE OF ONE OTHER SITUATION. IF THERE ARE  
15 MORE, I'M NOT CERTAIN ABOUT THAT.

16 Q. WELL, YOU'RE AWARE THAT DR. GOULD HAS REGULARLY  
17 CONSULTED WITH LAWYERS FROM SHOOK, HARDY & BACON ON  
18 CIGARETTE-RELATED MATTERS?

19 MR. OHLEMEYER: YOUR HONOR, IF I MAY OBJECT TO  
20 THIS QUESTION. THIS IS THE CROSS-EXAMINATION OF DR. WARREN,  
21 NOT DR. GOULD.

22 I THINK IT'S ARGUMENTATIVE, LACKS FOUNDATION.

23 THE COURT: LACKS FOUNDATION? IT'S NOT  
24 ARGUMENTATIVE, BUT IT MAY LACK FOUNDATION. THERE IS NO  
25 FOUNDATION IN THE RECORD FOR IT NOW.

26 MS. CHABER: Q. YOU AND DR. GOULD HAVE  
27 PUBLISHED SOME PAPERS TOGETHER?

28 A. YES, MA'AM.

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0050

1 Q. YOU WORK TOGETHER?

2 A. YES, MA'AM.

3 Q. IT WAS DR. GOULD WHO SUGGESTED THAT YOU BE  
4 CONTACTED BY THE LAWYERS FROM SHOOK, HARDY & BACON?

5 A. THAT'S CORRECT.

6 Q. AND DR. GOULD IN THE PAST HAS TOLD YOU THAT HE  
7 HAS CONSULTED WITH THE LAWYERS FROM SHOOK, HARDY & BACON ON  
8 BEHALF OF CIGARETTE MANUFACTURERS?

9 A. YES, I AM AWARE OF THAT.

10 Q. AND IF I UNDERSTAND THE WAY YOUR REVIEW OF THE  
11 MATERIALS OCCURRED, SOME LAWYERS GOT ON AN AIRPLANE AND  
12 PHYSICALLY BROUGHT YOU X-RAYS TO REVIEW?

13 A. THAT'S CORRECT.

14 Q. AND THEY BROUGHT YOU THE MEDICAL RECORDS?

15 A. YES.

16 Q. AND YOU AND DR. GOULD AND THOSE LAWYERS ALL SAT  
17 DOWN IN A ROOM TOGETHER AND REVIEWED THE MATERIALS; CORRECT?

18 A. WELL, WHAT WE DID WAS MET ONE SATURDAY MORNING.  
19 IN FACT, DR. GOULD HAD MET WITH THESE GENTLEMEN ON A  
20 PREVIOUS OCCASION A WEEK OR TWO EARLIER -- I DON'T RECALL  
21 WHEN -- AND IT WAS AT THAT TIME THAT HE ASKED THEM TO SET UP  
22 THIS MEETING WITH ME.

23 WHEN WE SAT DOWN IN THE ROOM, THE FIRST THING  
24 THAT THEY DID WAS THEY GAVE ME THE X-RAYS TO READ. THEY  
25 GAVE ME A VERY LITTLE STORY. "THIS IS A 50-YEAR-OLD WOMAN  
26 AND PRESENTS WITH THESE X-RAYS. WHAT DO YOU THINK?"

27 AND SO I LOOKED AT THE X-RAYS WITHOUT A REPORT  
28 AND WITHOUT ANY BACKGROUND, WITHOUT HAVING SEEN ANY

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0051

1 PATHOLOGY, WITHOUT HAVING REVIEWED ANY SLIDES, WITHOUT  
2 HAVING REVIEWED ANY RECORDS.

3 Q. AND IS IT TRUE THAT DR. GOULD WAS IN THE ROOM AT  
4 THE SAME TIME AS THE LAWYERS FOR SHOOK, HARDY & BACON WHILE  
5 YOU WERE REVIEWING THE X-RAYS?

6 A. YES.

7 Q. AND AT THAT POINT IN TIME, YOU TOLD THEM WHAT YOU  
8 THOUGHT?

9 A. I TOLD THEM A PRELIMINARY CONCLUSION.

10 Q. AND THAT HAS NEVER BEEN COMMITTED TO WRITING, HAS  
11 IT?



12 A. NOT IN MY BEHALF, NO.  
13 Q. YOU DIDN'T PREPARE ANYTHING AS A RESULT OF EITHER  
14 THAT MEETING OR ANY OTHER SUBSEQUENT REVIEWS OF THE RECORDS?  
15 A. NO.  
16 Q. YOU DID NOT, WHEN YOU REVIEWED -- YOU HAVE  
17 REVIEWED THESE X-RAYS NOW ON HOW MANY OCCASIONS?  
18 A. FOUR OR FIVE OCCASIONS.  
19 Q. AND ON ANY OF THOSE FOUR OR FIVE OCCASIONS, DID  
20 YOU JOT DOWN WHAT YOUR IMPRESSIONS WERE ON THAT DAY?  
21 A. NO, MA'AM.  
22 Q. NOW, YOU HAVE HAD YOUR DEPOSITION TAKEN SOME 10  
23 TO 12 TIMES IN THE PAST?  
24 A. THAT'S CORRECT.  
25 Q. AND YOU'VE TESTIFIED IN COURT TWO TIMES IN THE  
26 PAST?  
27 A. THAT'S RIGHT.  
28 Q. LET ME ASK YOU THIS, DOCTOR: OVER YOUR ENTIRE  
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0052

1 CAREER OF WHAT, 10 TO 15 YEARS, INCLUDING YOUR TRAINING?  
2 A. 14 -- 14 YEARS OUT OF TRAINING.  
3 Q. OKAY. AND THEN, HOW MUCH WITH TRAINING?  
4 A. WELL, THREE YEARS OF CARDIOTHORACIC TRAINING, A  
5 YEAR OF RESEARCH, FOUR YEARS OF GENERAL SURGERY, AND A YEAR  
6 OF INTERNSHIP, ALL PART OF MY TRAINING IN MEDICINE.  
7 Q. AND IN ALL OF THAT TIME PERIOD, IS IT TRUE,  
8 DOCTOR, THAT YOU HAVE SEEN A TOTAL OF 100 PRIMARY THYMIC  
9 TUMORS?  
10 A. I THINK IT'S IN THAT RANGE, YES. THAT'S AN  
11 ESTIMATE.  
12 Q. AND I BELIEVE WHEN YOU ESTIMATED THIS FOR ME IN  
13 YOUR DEPOSITION, YOU ESTIMATED THAT OF THOSE 100 THAT YOU'VE  
14 SEEN OVER THE LAST 20 YEARS, 25 OF THOSE WERE MALIGNANCIES?  
15 A. YES. I JUST WANT TO CLARIFY THAT, IN CLINICAL  
16 PRACTICE, YOU KNOW, WE'RE REALLY TALKING ABOUT 14 YEARS. IF  
17 THINGS WERE HAPPENING IN MEDICAL SCHOOL, MY -- THAT 100  
18 CASES IS OVER THE 14 YEARS THAT I'VE BEEN IN PRACTICE.  
19 Q. DO YOU RECALL TELLING ME THAT THAT WOULD COVER  
20 THE TIME PERIOD OF YOUR CAREER AND INCLUDE YOUR TRAINING IN  
21 THORACIC SURGERY?  
22 A. I DON'T REMEMBER THAT POINT. BUT IF IN MY  
23 TRAINING I'M STUDYING SOMETHING ELSE, I'M NOT GOING TO BE  
24 AWARE OF THYMOMAS COMING ALONG.  
25 Q. SO IT'S FAIR TO SAY THEN, IN AN APPROXIMATELY  
26 15-YEAR-TIME PERIOD, YOU SAW 100 PRIMARY THYMIC TUMORS, OF  
27 WHICH ONLY ONE-QUARTER OF THEM WERE MALIGNANT?  
28 A. THAT'S RIGHT.

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0053

1 Q. OKAY. SO THE OTHER THREE-QUARTERS -- THAT'S  
2 ABOUT THE LENGTH OF MY MATH SKILLS -- THE OTHER  
3 THREE-QUARTERS OF THOSE WERE BENIGN; THEY WERE NOT  
4 MALIGNANT? THEY WERE NOT CANCER?  
5 A. THAT'S AN ESTIMATE, YES.  
6 Q. SO OF THE 25 PRIMARY THYMIC CANCERS THAT YOU'VE  
7 SEEN OVER A 15-YEAR-TIME PERIOD, IS IT FAIR TO SAY, DR.  
8 WARREN, THAT NOT ONE SINGLE ONE OF THE CANCEROUS TUMORS THAT  
9 YOU FOUND TO BE PRIMARY TO THE THYMUS WERE OF THE SMALL CELL  
10 TYPE?  
11 A. WELL, THAT IS WHAT I SAID AT MY DEPOSITION.  
12 BUT THAT GOT ME TO REVIEW MY FILES. AND IN FACT,  
13 THERE ARE TWO INTERESTING CASES THAT PROBABLY WERE SMALL  
14 CELL CARCINOMA, ALTHOUGH AT THE TIME THEY WERE NOT -- THEY

15 WERE NOT PURE SMALL CELL CARCINOMAS, AND THEY WERE NOT  
16 CLEARLY SMALL CELL CARCINOMA OF THE THYMUS.  
17 Q. NOW, DR. WARREN, YOU KNEW FROM HAVING BEEN  
18 INVOLVED IN LEGAL PROCEEDINGS BEFORE THAT YOU'RE SUPPOSED TO  
19 PREPARE AND HAVE ALL YOUR OPINIONS AND THE THINGS THAT YOU  
20 BASE THEM ON CONCLUDED AT THE TIME OF YOUR DEPOSITION?  
21 A. I WASN'T AWARE OF THAT. BUT INASMUCH AS YOU  
22 ASKED A QUESTION THAT WAS OF INTEREST, I PAID ATTENTION TO  
23 MY RECORDS IN THE INTERVAL.  
24 I MIGHT REMIND YOU THAT, AT THE TIME OF MY  
25 DEPOSITION, I WAS STILL LOOKING FOR A REFERENCE, AND THAT  
26 REFERENCE TURNS OUT TO BE A PAPER PUBLISHED BY DR. GOULD.  
27 AND IN THAT REFERENCE, IT SO HAPPENS THAT THERE  
28 WAS A MALIGNANT CARCINOID/SMALL CELL CARCINOMA OF THE THYMUS  
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0054

1 THAT I, IN FACT, HAD PHOTOGRAPHED FOR HIM FOR THAT  
2 PUBLICATION.  
3 SO CLEARLY, THAT COUNTS AS A CASE. BUT AT THE  
4 TIME OF MY DEPOSITION, I WASN'T FOCUSED ON THAT.  
5 Q. AND YOU HAD AN OPPORTUNITY SINCE YOUR DEPOSITION  
6 TO MAKE A CORRECTION TO YOUR DEPOSITION AND TO CORRECT THE  
7 RECORD?  
8 A. I BELIEVE THE LAWYERS AT SHOOK, HARDY & BACON  
9 WERE AWARE OF THAT, AND DID THE APPROPRIATE THINGS, YES.  
10 Q. YOU ASSUME THEY DID THE APPROPRIATE THINGS?  
11 A. I DID NOT CONTACT ANYBODY, BUT I CERTAINLY MADE  
12 THE LAWYERS AT SHOOK, HARDY & BACON AWARE THAT I HAD, UPON  
13 REVIEW, BECOME AWARE OF TWO ADDITIONAL CASES, TWO CASES.  
14 Q. DID YOU WRITE ANY CHANGES OR CORRECTIONS TO YOUR  
15 DEPOSITION TESTIMONY?  
16 A. NO. I MADE THEM AWARE, BUT I DID NOT MAKE ANY  
17 WRITTEN CHANGES.  
18 Q. AND IN YOUR DEPOSITION TESTIMONY, YOU WERE VERY  
19 CLEAR AT THAT TIME, DOCTOR, THAT THERE WERE NONE OF THE  
20 SMALL CELL VARIETY THAT YOU HAD SEEN?  
21 A. MY TESTIMONY AT DEPOSITION SAID THAT. HOWEVER,  
22 AS YOU'RE AWARE FROM THE REFERENCES THAT I PROVIDED YOU,  
23 SOME OF THE CASES OF SMALL CELL CARCINOMA IN THE LITERATURE  
24 WERE THE ADMIXED WITH MALIGNANT CARCINOID. SO THEY'RE NOT  
25 PURE SMALL CELL CARCINOMA.  
26 ON A SMALL BIOPSY, CERTAINLY THEY WOULD LOOK LIKE  
27 A SMALL CELL CARCINOMA.  
28 THE CASE I'M REFERRING TO, PUBLISHED BY DR. GOULD  
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0055

1 IN 1981, WAS RESECTED AS "MALIGNANT CARCINOID," AND SMALL  
2 CELL WAS FOUND WITHIN IT. I HAD NOT ORIGINALLY COUNTED THAT  
3 TO BE A SMALL CELL CARCINOMA.  
4 WHEN I DISCOVERED THAT HE HAD PUBLISHED IT AS A  
5 SMALL CELL CARCINOMA ADMIXED WITH A CARCINOID, I THOUGHT  
6 THAT I WOULD HAVE TO CORRECT THAT STATEMENT IN THE  
7 DEPOSITION.  
8 Q. AND YOU MADE A CHANGE, AND YOU SENT IT IN TO THE  
9 DEPOSITION REPORTER SO THAT THAT WOULD BE PUT INTO THE  
10 PERMANENT RECORD, AND SO THAT I WOULD HAVE THAT INFORMATION,  
11 SIR?  
12 A. MY UNDERSTANDING, I HAD CONTACTED THE PEOPLE AT  
13 SHOOK, HARDY & BACON, AND I THOUGHT THAT THEY HAD MADE AN  
14 AMENDMENT TO THE DEPOSITION TO THAT EFFECT.  
15 IT'S NOT THAT THERE IS A MISTAKE IN THE  
16 DEPOSITION. IT'S THAT, SINCE THE DEPOSITION, I HAD  
17 DISCOVERED TWO CASES THAT WERE OF INTEREST.

18 Q. AND IS IT FAIR TO SAY, THOUGH, THAT IN YOUR  
19 DEPOSITION, WHEN YOU WERE ASKED HOW MANY OF THE 25 MALIGNANT  
20 PRIMARY CARCINOMAS THAT YOU HAVE DIAGNOSED WERE SMALL; CELL,  
21 -- YOU GAVE AN UNEQUIVOCAL NONE --  
22 A. WITH THE --  
23 Q. -- AS YOUR ANSWER; IS THAT CORRECT?  
24 A. THAT'S CORRECT. BUT I HAD NOT DIAGNOSED EITHER  
25 OF THESE CASES. SO IN FACT, THE RECORD STANDS CORRECTED. I  
26 DID NOT MAKE THOSE DIAGNOSES.  
27 Q. AND IN FACT, YOU TESTIFIED IN YOUR DEPOSITION,  
28 DID YOU NOT, SIR, THAT THIS CASE, MS. HENLEY'S CASE, WOULD  
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0056

1 BE THE FIRST SMALL CELL THYMIC PRIMARY THAT YOU HAD SEEN IN  
2 YOUR CAREER; DO YOU RECALL TESTIFYING TO THAT?  
3 A. YES, I DO.  
4 Q. AND YOU DID SAY THAT?  
5 A. YES, MA'AM.  
6 Q. NOW, YOU'VE SEEN APPROXIMATELY, OR DIAGNOSED  
7 APPROXIMATELY 1,000 CASES OF LUNG CANCER DURING THIS SAME  
8 TIME PERIOD?  
9 A. APPROXIMATELY.  
10 Q. AND OF THOSE THOUSAND CASES OF LUNG CANCER,  
11 APPROXIMATELY 20 PERCENT OR 200 WERE OF THE SMALL CELL  
12 VARIETY?  
13 A. THAT IS HOW MANY SMALL CELL CARCINOMAS WOULD BE  
14 FOUND IN A GENERAL POPULATION OF 1,000. SO THAT'S A GUESS,  
15 YES.  
16 Q. WAS THAT A GUESS YOU WERE GIVING, DOCTOR?  
17 A. I DID NOT REVIEW MY RECORDS AND COUNT UP THE  
18 NUMBER OF DIAGNOSES OF SMALL CELL THAT I HAD MADE.  
19 Q. AND, DOCTOR, HOW MANY OF THOSE 200 PEOPLE WITH  
20 SMALL CELL LUNG CANCER SMOKED?  
21 A. I DON'T RECALL.  
22 Q. DO YOU RECALL TESTIFYING IN YOUR DEPOSITION, WHEN  
23 I ASKED YOU THE SAME QUESTION, THE QUESTION BEING: "AND HOW  
24 MANY OF THOSE 200 PEOPLE WITH SMALL CELL LUNG CANCER  
25 SMOKED," YOUR ANSWER WAS, "ALL OF THEM"? DO YOU RECALL  
26 THAT, DOCTOR?  
27 A. I DON'T RECALL IT. I CAN BELIEVE THAT IT'S TRUE,  
28 EXCEPT THAT I HAD ONE PATIENT -- I THINK IF YOU READ ON, YOU  
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0057

1 WILL FIND THAT IT DEPENDS WHAT WE DEFINE AS A SMOKER, A  
2 NONSMOKER AND AN EX-SMOKER.  
3 AND I WENT ON TO DEFINE THAT AN EX-SMOKER WAS  
4 SOMEBODY WHO HAD QUIT SMOKING FOR 15 YEARS, AND THAT THE  
5 VAST MAJORITY OF PEOPLE WHO HAD SMALL CELL CARCINOMA ARE  
6 SMOKERS, WERE SMOKERS, BUT THAT I HAD FOUND ONE PATIENT WHO  
7 HAPPENED TO HAVE QUIT SMOKING MORE THAN 15 YEARS BEFORE  
8 THEIR SMALL CELL CARCINOMA WAS DIAGNOSED. SO THERE WAS ONE  
9 PATIENT THAT I'M AWARE OF.  
10 Q. AND, DOCTOR, IS IT TRUE THEN THAT ALL BUT ONE OF  
11 THE PEOPLE OF THE 200 PEOPLE YOU'VE DIAGNOSED WITH SMALL  
12 CELL LUNG CANCER WERE SMOKERS?  
13 A. YES.  
14 Q. AND THE ONE WHO WAS DIAGNOSED HAD BEEN A FORMER  
15 SMOKER; CORRECT?  
16 A. THAT'S CORRECT.  
17 Q. NOW, DOCTOR, IN A WOMAN WHO PRESENTS WITH A LEFT  
18 HILAR MASS AND A 75 TO 122-PACK-YEAR SMOKING HISTORY, WOULD  
19 YOU AGREE THAT THE MOST LIKELY DIAGNOSIS OF THAT PERSON IS  
20 GOING TO BE LUNG CANCER?

21 A. YES.  
22 Q. AND YOU WOULD AGREE, WOULD YOU NOT, THAT LUNG  
23 TUMORS GROW IN TWO WAYS?  
24 A. AT LEAST TWO WAYS.  
25 Q. ONE OF THE WAYS IS THAT THEY GROW BY ESTABLISHING  
26 METASTATIC DISEASE?  
27 A. YES.  
28 Q. AND THAT'S WHAT YOU WERE TALKING ABOUT, ABOUT  
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0058

1 METASTASIZING INTO THE LYMPH NODES; CORRECT?  
2 A. CORRECT.  
3 Q. AND IT'S TRUE, DOCTOR, ISN'T IT, THAT LUNG  
4 CANCERS ALSO GROW BY DIRECT SPREAD?  
5 A. YES.  
6 Q. AND I THINK THAT YOU INDICATED THAT THE MASS WAS  
7 NEXT TO THE BRONCHIAL TUBE?  
8 A. IT'S A GREATER THAN SIX-CENTIMETER MASS, AND AT  
9 ONE PLACE IT IS TOUCHING AGAINST THE BRONCHUS, YES.  
10 Q. AND IN FACT, IT'S SURROUNDING THE BRONCHUS, ISN'T  
11 IT?  
12 A. I DON'T BELIEVE SO. IT'S SURROUNDING THE ARTERY,  
13 BUT NOT THE BRONCHUS.  
14 Q. DID YOU SEE REFERENCE IN THE MEDICAL RECORDS TO  
15 IT SURROUNDING THE BRONCHUS?  
16 A. I DON'T RECALL.  
17 Q. CAN YOU SEE IT, DOCTOR, WHERE THERE'S TUMOR ON  
18 EITHER SIDE OF THE BRONCHUS SURROUNDING IT ON THE CAT SCANS?  
19 A. I THINK THAT IT IS AGAINST THE BRONCHUS, BUT I  
20 DON'T THINK IT SURROUNDS THE BRONCHUS.  
21 Q. AND, DOCTOR, YOU WOULD AGREE THAT THERE CAN BE A  
22 SUBMUCOSAL LESION IN THE BRONCHUS?  
23 A. YES.  
24 Q. AND "SUBMUCOSAL" MEANS WHAT, DOCTOR?  
25 A. UNDER THE MUCOSA, UNDER THE LINING.  
26 Q. AND THIS IS UNDER THE LINING, BUT WOULD NOT  
27 APPEAR IF YOU WERE LOOKING FROM THE INSIDE OF THE BRONCHIAL  
28 TUBE?

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0059

1 A. WELL, IF THERE IS SUBMUCOSAL SPREAD OF TUMOR, YOU  
2 CAN SEE IT. BUT THE MUCOSA IS THICK. IT'S LINED UP  
3 WITH -- THE FACT THAT THE LINING IS ITSELF INTACT IS WHAT'S  
4 IMPLIED HERE.  
5 BUT THAT THE TUMOR IS BETWEEN THE RINGS OF  
6 CARTILAGE STARTING IN THE WINDPIPE AND THE LINING.  
7 SO YES, YOU CAN SEE A SUBMUCOSAL TUMOR.  
8 Q. DOCTOR, IT CAN PRESENT AS INFLAMMATION, CAN'T IT?  
9 A. TYPICALLY, YOU MAKE A DISTINCTION BETWEEN  
10 SUBMUCOSAL TUMOR AND INFLAMMATION.  
11 Q. NOW, DOCTOR, I THINK YOU INDICATED THAT THERE ARE  
12 SOME SYMPTOMS THAT YOU'D EXPECT IN SOMEBODY WHO PRESENTED  
13 WITH A LUNG CANCER?  
14 A. YES.  
15 Q. AND WERE YOU GIVING THESE SYMPTOMS SPECIFICALLY  
16 ABOUT A SMALL CELL CANCER?  
17 A. NO, MA'AM.  
18 Q. YOU WERE GIVING THESE SYMPTOMS WHEN IT RELATED TO  
19 THE NERVE AND IMPINGING ON THE NERVE, THE VOCAL CORD NERVE?  
20 DO YOU KNOW WHAT I'M TALKING ABOUT WHEN I'M  
21 SAYING THAT?  
22 A. I SAID THAT ONE OF THE WAYS THAT THE CANCER CAN  
23 PRESENT IS BY INVOLVING THE NODE RIGHT ON THAT NERVE, THAT

24 IT CAN CAUSE A PATIENT TO BE HOARSE, AND THAT THAT CAN BE  
25 PRESENTING SYMPTOMS.  
26 BUT THAT'S NOT SPECIFIC TO A SMALL CELL CARCINOMA  
27 OF THE LUNG.  
28 Q. AND IT'S ALSO NOT SOMETHING THAT OCCURS IN EVERY  
JUDITH ANN OSSA, CSR NO. 2310

0060

1 PERSON WHO PRESENTS WITH A SMALL CELL CARCINOMA OF THE LUNG?  
2 A. NOT EVERY PATIENT, NO.  
3 Q. AND IN FACT, MS. HENLEY DID EXPLAIN THAT SHE  
4 COULDN'T SING, SHE COULDN'T PROJECT HER VOICE.  
5 DO YOU RECALL THAT?  
6 A. I RECALL THAT THERE WERE -- THERE WAS A COMMENT  
7 IN THE RECORD THAT HER VOICE WAS NORMAL. I REMEMBER THAT  
8 SPECIFICALLY WRITTEN OUT, THAT HER VOICE WAS NORMAL.  
9 I REMEMBER THAT ONE OF THE REASONS THAT SHE WAS  
10 CONCERNED ABOUT SMOKING WAS THAT SHE MIGHT DEVELOP A LOW  
11 VOICE, BUT I DON'T REMEMBER ANYTHING IN THE RECORD ABOUT HER  
12 HAVING HOARSENESS.  
13 Q. YOU DON'T REMEMBER ANYTHING IN THE RECORD ABOUT  
14 HER SAYING THAT SHE COULDN'T SING AS MANY SONGS; SHE  
15 COULDN'T SING AS WELL?  
16 A. I DON'T RECALL THAT, BUT THAT'S NOT WHAT I'M  
17 TALKING ABOUT WITH HOARSENESS. THE ABILITY TO SING IS  
18 SOMETHING ELSE.  
19 Q. AND, DOCTOR, MR. OHLEMEYER KEPT ASKING YOU ABOUT  
20 A TYPICAL CANCER OF THE LUNG.  
21 CANCERS PRESENT DIFFERENTLY IN INDIVIDUALS, DON'T  
22 THEY?  
23 A. YES.  
24 Q. AND SOMETIMES, THERE'S SOMETHING THAT'S A  
25 COMPLETELY CLASSIC PRESENTATION?  
26 A. YES.  
27 Q. AND SOMETIMES, THERE ARE THINGS THAT ARE LESS  
28 CLASSIC PRESENTATIONS?

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0061

1 A. YES.  
2 Q. AND DOCTOR, IT'S TRUE, IS IT NOT, THAT EVEN THE  
3 LEAST TYPICAL SMALL CELL LUNG CANCER, THE LEAST TYPICAL  
4 PRESENTATION OF A SMALL CELL LUNG CANCER IS MORE COMMON THAN  
5 A THYMIC CANCER?  
6 A. I THINK THAT'S SORT OF A GENERAL STATEMENT. I'M  
7 NOT SURE I CAN SAY YES OR NO TO THE WAY YOU PHRASED IT.  
8 Q. WELL, DOCTOR, YOU INDICATED IN YOUR DEPOSITION,  
9 DID YOU NOT, THAT THERE ARE CANCERS THAT PRESENT AND THAT  
10 DON'T PRESENT IN THE CLASSIC PATTERN, WRITTEN UP IN  
11 TEXTBOOKS AND WITH WHAT YOU'VE DESCRIBED?  
12 A. OF COURSE.  
13 Q. AND YOU INDICATED THAT SOMEWHERE BETWEEN 5 AND 10  
14 PERCENT OF LUNG CANCERS MIGHT PRESENT ATYPICALLY?  
15 A. GENERALLY SPEAKING, YES.  
16 Q. NOW, YOU WOULD AGREE, WOULD YOU NOT, THAT THYMIC  
17 CANCER IS A VERY UNUSUAL CANCER?  
18 A. IT'S CERTAINLY MUCH LESS COMMON THAN LUNG CANCER,  
19 GENERALLY SPEAKING, YES.  
20 Q. DOCTOR, IN TERMS OF A SITE FOR A SMALL CELL  
21 CANCER, WOULD YOU AGREE THAT THE THYMUS IS AT THE VERY  
22 BOTTOM OF THE LIST OF COMMON SITES FOR THE PRESENTATION OF A  
23 PRIMARY SMALL CELL CANCER?  
24 A. I WOULDN'T SAY THAT, NO.  
25 Q. DOCTOR, HAVE YOU EVER LOOKED AT THE SEER DATA?  
26 A. NO.

27 Q. DO YOU KNOW THAT OR DO YOU HAVE INFORMATION THAT  
28 THE AMERICAN CANCER SOCIETY KEEPS RECORDS OF THE LOCATIONS  
JUDITH ANN OSSA, CSR NO. 2310

0062

1 OF CANCER THAT PRESENT AS INCIDENCES OF CANCER IN A GIVEN  
2 YEAR?

3 A. YES.

4 Q. AND THEY KEEP RECORDS OF THE INFORMATION OF THE  
5 PEOPLE WHO DIE OF CANCER AND WHAT THE SITE OF ORIGIN IS?

6 A. YES.

7 Q. AND DO YOU KNOW, DOCTOR, THAT THERE ARE 46  
8 DIFFERENT SITES LISTED ON THE SEER DATA?

9 A. I'M NOT AWARE OF THAT.

10 Q. DO YOU KNOW, DOCTOR, WHERE LUNG CANCER IS IN  
11 TERMS OF SITES OF CANCER PRESENTATION?

12 A. I WOULD EXPECT IT TO BE ON THE TOP OF THE LIST.

13 Q. AND DO YOU KNOW, DOCTOR, WHERE THYMIC CANCER IS?

14 A. I WOULD EXPECT IT TO BE NOT ON -- IN THE TOP  
15 HALF.

16 Q. WOULD IT SURPRISE YOU, DOCTOR, IF IT WAS IN THE  
17 VERY BOTTOM OF THE LIST?

18 A. I THINK IT WOULD BE MISLEADING.

19 Q. DOCTOR, IN TERMS OF THE SITES OF CANCER, WOULD  
20 YOU AGREE THAT LESS THAN 1 PERCENT OF CANCERS PRESENT IN THE  
21 THYMUS?

22 A. THAT'S PROBABLY TRUE, GENERALLY SPEAKING.

23 Q. WOULD YOU AGREE THAT LESS THAN .1 PERCENT OF  
24 CANCERS PRESENT IN THE THYMUS?

25 A. I'M NOT FAMILIAR WITH THE STATISTICS TO BE ABLE  
26 TO SAY WHETHER IT'S .1 OR 1 PERCENT. IT'S AN UNCOMMON SITE  
27 FOR A CANCER.

28 Q. AND, DOCTOR, I THOUGHT I HEARD ON DIRECT  
JUDITH ANN OSSA, CSR NO. 2310

0063

1 EXAMINATION THAT YOU SAID THAT THE HILUM WAS THE ROOT OF THE  
2 LUNG?

3 A. I DON'T BELIEVE I SAID THAT, BUT IT IS TRUE.

4 Q. AND, DOCTOR, IS IT TRUE THAT THE BRONCHUS, THE  
5 AIR TUBES, ARE A PART OF THE LUNG?

6 A. NO, THE BRONCHUS IS NOT PART OF THE LUNG.

7 Q. THE BRONCHUS IS NOT PART OF THE LUNG?

8 A. TYPICALLY SPEAKING, THE BRONCHUS, THE MAIN STEM  
9 BRONCHUS, THE AIRWAY, IS NOT PART OF THE LUNG, NO.

10 Q. SO IN OTHER WORDS, WHEN A CANCER OCCURS IN THE  
11 AIRWAY, IT'S NOT A LUNG CANCER?

12 A. WELL, YOU SAY "BRONCHUS." I'M TAKING YOUR  
13 QUESTIONS VERY LITERALLY HERE.

14 Q. WELL, DO CANCERS OCCUR IN THE BRONCHUS?

15 A. YES, MA'AM, THEY DO.

16 Q. DO CANCERS OCCUR IN THE AIRWAYS?

17 A. CANCERS OCCUR IN THE TRACHEA AND IN THE  
18 WINDPIPE. THEY'RE NOT LUNG CANCERS NECESSARILY.

19 Q. ARE CANCERS THAT OCCUR IN THE MAIN STEM BRONCHUS  
20 CONSIDERED LUNG CANCERS, DOCTOR?

21 A. IF THEY ARE LIMITED TO THE MAIN STEM BRONCHUS,  
22 THEY ARE NOT CONSIDERED TO BE LUNG CANCER.

23 Q. DOCTOR, YOU'RE FAMILIAR WITH ARTICLES, AND I  
24 THINK ONE YOU MAY HAVE PRODUCED ON "THYMIC CARCINOMA:  
25 SPECTRUM OF DIFFERENTIATION AND HISTOLOGIC TYPES" BY SUSTER  
26 AND MORAN?

27 A. YES, MA'AM.

28 Q. DOCTOR, WHEN THEY SPEAK OF DIFFERENTIAL DIAGNOSES  
JUDITH ANN OSSA, CSR NO. 2310

0064

1 THERE, THEY WERE TALKING ABOUT THE DIFFERENT CELL TYPES?

2 A. THERE WERE REFERENCES IN THERE TO CLINICAL  
3 PRESENTATION OF THE VARIOUS CELL TYPES, YES.

4 Q. AND THEY WERE TALKING SOMEWHAT ABOUT THE  
5 DIFFERENTIAL DIAGNOSIS, WHERE YOU MAKE STATEMENTS ABOUT WHAT  
6 ARE PROBABLE THINGS THAT YOU'RE LOOKING AT THAT, WHAT YOU'RE  
7 GOING TO CONSIDER IN DETERMINING WHAT A PATIENT'S DIAGNOSIS  
8 IS; CORRECT?

9 A. YES.

10 Q. AND IN TERMS OF THE DIFFERENTIAL DIAGNOSIS IN MS.  
11 HENLEY'S CASE, DID YOU SEE ANYWHERE IN HER TREATING RECORDS  
12 WHERE A SINGLE ONE OF HER DOCTORS INCLUDED A THYMIC CANCER  
13 AS PART OF THE DIFFERENTIAL?

14 A. NO.

15 Q. AND, DOCTOR, IT'S TRUE, IS IT NOT, THAT A  
16 DIAGNOSIS OF THYMIC CANCER MUST BE BASED ON THE EXCLUSION OF  
17 A PRIMARY TUMOR ELSEWHERE?

18 A. I BELIEVE, IF YOU ARE QUOTING THE ARTICLE, YOU'RE  
19 TALKING ABOUT SMALL CELL CARCINOMA OF THE THYMUS; IS THAT  
20 CORRECT?

21 Q. OKAY. I'LL LIMIT IT TO THAT. LET ME REPHRASE MY  
22 QUESTION THEN.

23 IS IT TRUE, DOCTOR, THAT THE RENDERING OF A  
24 DIAGNOSIS OF PRIMARY SMALL CELL CARCINOMA OF THE THYMUS MUST  
25 BE BASED ON THE EXCLUSION OF A PRIMARY TUMOR ELSEWHERE?

26 A. THAT'S ACCURATE. AND THAT'S WHY I QUESTIONED HOW  
27 THE CANCER SOCIETY CAN BE SURE THAT SOME OF THE SMALL CELL  
28 CARCINOMAS OF THE MEDIASTINUM DIDN'T ARISE IN THE THYMUS,

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0065

1 SINCE OFTEN THE TUMOR IS WIDESPREAD AND YOU CAN'T -- YOU  
2 SIMPLY CAN'T TELL.

3 AND BASED ON THAT RATHER HIGH STANDARD, IT MAY  
4 WELL BE THAT SOME OF THE THYMIC SMALL CELL CARCINOMAS HAVE  
5 SPREAD THROUGHOUT THE MEDIASTINUM AND WERE ASSUMED TO BE  
6 LUNG AND, IN FACT, WERE THYMIC IN ORIGIN.

7 AND THAT IS WHY IT MAY WELL BE A MORE COMMON  
8 DIAGNOSIS THAN HAS BEEN REFLECTED IN THE STATISTICS.

9 Q. I THINK, IN YOUR DEPOSITION, YOU SAID YOU THOUGHT  
10 THERE WERE ABOUT 200,000 LUNG CANCERS A YEAR?

11 A. YES.

12 Q. AND I THINK THAT YOU INDICATED THAT APPROXIMATELY  
13 20 PERCENT OF THOSE 200,000 WOULD BE OF THE SMALL CELL  
14 VARIETY?

15 A. THAT'S CORRECT.

16 Q. AND, DOCTOR, I WANT YOU TO ASSUME THAT -- I DON'T  
17 KNOW -- WHAT DO YOU THINK IS A REASONABLE NUMBER?

18 LET ME ASK YOU: WHAT IS A REASONABLE NUMBER OF  
19 MISDIAGNOSES, DOCTOR, OF ALL OF THOSE 200,000 LUNG CANCERS,  
20 WHERE THE DIAGNOSIS SHOULD HAVE BEEN THYMIC CANCER?

21 A. I HAVE ABSOLUTELY NO IDEA.

22 Q. DOCTOR, I WANT YOU TO ASSUME THAT THE REPORTED  
23 INCIDENCE OF THYMIC CANCERS -- STRIKE THAT -- THE REPORTED  
24 INCIDENCE OF OTHER NEUROENDOCRINE CANCERS, OF WHICH THYMIC  
25 CANCER WOULD BE INCLUDED, IS LESS THAN 800 IN A YEAR.

26 CAN YOU MAKE THAT ASSUMPTION?

27 A. I'LL MAKE THAT ASSUMPTION.

28 Q. HOW MANY DIAGNOSES OF THOSE 800 NEUROENDOCRINE

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0066

1 CANCERS -- FIRST OF ALL, CAN YOU EVEN ESTIMATE HOW MANY OF  
2 THOSE 800 WOULD BE A THYMIC CANCER?

3 A. I'M SORRY. I'M NOT FOLLOWING YOUR QUESTION.  
4 THYMIC CANCERS CAN BE OF MANY VARIETIES. SOME  
5 ARE SMALL CELL. MANY ARE NOT. SO --  
6 Q. I'M NOT EVEN TALKING ABOUT SMALL CELL, DOCTOR.  
7 I WANT YOU TO ASSUME THE INCIDENCE ON A YEARLY  
8 BASIS OF OTHER NEUROENDOCRINE CANCERS, ELIMINATING -- NOT  
9 INCLUDING THE LUNG, NOT INCLUDING OTHER SITES, ONLY CANCERS  
10 THAT WOULD BE IN THE AREA WHERE THE THYMUS AND OTHER  
11 NEUROENDOCRINE SYSTEMS ARE.  
12 A. I'M SORRY. NEUROENDOCRINE IS THE  
13 DIFFERENTIAL -- IS THE PATTERN OF DIFFERENTIATION FOUND IN  
14 SMALL CELL CARCINOMA.  
15 SO I SIMPLY DON'T UNDERSTAND YOUR QUESTION.  
16 SMALL CELL CARCINOMAS ARE ALMOST BY DEFINITION  
17 NEUROENDOCRINE.  
18 Q. I MISSPOKE, DOCTOR. OTHER ENDOCRINE SITES.  
19 A. ENDOCRINE?  
20 Q. ENDOCRINE.  
21 A. OKAY.  
22 Q. WOULD THE THYMUS BE IN THERE?  
23 A. CHARACTERISTICALLY, THE THYMUS IS NOT CONSIDERED  
24 TO BE AN ENDOCRINE ORGAN. YOU WILL HAVE TO GO ON --  
25 Q. LET ME FIND THE EXACT DOCUMENT, DOCTOR, BECAUSE I  
26 WANT TO SEE THEN WHAT CATEGORY YOU WOULD PUT IT IN.  
27 SOMEHOW, IT'S NOT IN THERE. I DON'T SEE IT.  
28 SO AS TO NOT WASTE YOUR TIME, DOCTOR, AND THE  
JUDITH ANN OSSA, CSR NO. 2310

0067

1 JURY'S TIME, I WANT YOU TO ASSUME A TOTAL OF 800 OTHER -- I  
2 WANT YOU TO ASSUME THE FOLLOWING: THAT THE SEER DATA IS  
3 LISTED BY SITE OF ORIGIN OF CANCER.  
4 A. OKAY.  
5 Q. AND I WANT YOU TO ASSUME FURTHER THAT IT IS NOT  
6 BROKEN DOWN INTO CELL TYPE.  
7 CAN YOU ASSUME THAT?  
8 A. I'LL ASSUME ANYTHING YOU WANT.  
9 Q. ASSUME FURTHER THAT THE NO. 1 SITE FOR CANCER IS  
10 THE LUNG.  
11 A. YES.  
12 Q. AND I WANT YOU TO ASSUME FURTHER THAT THE NUMBER  
13 46 ON A LIST OF 46 SITES OF OTHER SITES NOT PREVIOUSLY  
14 IDENTIFIED INCLUDES THYMIC CANCER.  
15 A. ALL RIGHT.  
16 Q. AND I WANT YOU TO ASSUME, OF THESE OTHER SITES,  
17 THERE'S A TOTAL OF 800 CASES IN A YEAR.  
18 A. ALL RIGHT.  
19 Q. DO YOU HAVE ANY WAY TO ESTIMATE HOW MANY THYMIC  
20 CANCERS THERE ARE IN A YEAR?  
21 A. WE'RE GOING BACK TO THYMIC CANCER AND NOT  
22 NEUROENDOCRINE?  
23 Q. THYMIC CANCER.  
24 A. THYMIC CANCER.  
25 HOW MANY THYMIC CANCERS?  
26 Q. HOW MANY THYMIC CANCERS IN A YEAR IN THE UNITED  
27 STATES?  
28 A. THE TERMINOLOGY OF THYMIC TUMORS HAS UNDERGONE  
JUDITH ANN OSSA, CSR NO. 2310

0068

1 EVOLUTION. IN THE ARTICLE THAT YOU REFERRED TO, THERE IS  
2 A -- IT HAS PRACTICALLY A PAGE OF THE CONTROVERSY OF THE  
3 TERMINOLOGY REGARDING THYMIC TUMORS, MALIGNANT THYMOMAS  
TYPE  
4 1, MALIGNANT THYMOMAS TYPE 2.



5 IT LISTED SIX OR SEVEN DIFFERENT TYPES OF  
6 MALIGNANT THYMIC CARCINOMAS AS SEPARATE FROM THE MALIGNANT  
7 THYMOMA WHICH, STRICTLY SPEAKING, IS A MALIGNANT THYMIC  
8 TUMOR.

9 Q. HOW MANY OF ALL OF THOSE -- THROW THEM ALL IN --  
10 HOW MANY IN A GIVEN YEAR, DOCTOR, IN THE UNITED STATES?

11 A. I DON'T KNOW. I SIMPLY DON'T KNOW.

12 Q. LESS THAN 1,000?

13 A. THERE MAY WELL BE.

14 Q. LESS THAN 500?

15 A. I DON'T KNOW, COUNSELOR. I WOULD EXPECT THAT IT  
16 WOULD BE MORE THAN 500.

17 Q. DOCTOR, DO YOU KNOW HOW MANY SMALL CELL THYMIC  
18 PRIMARY CANCERS HAVE BEEN REPORTED IN ALL THE WORLD'S  
19 LITERATURE, IN ALL THE TIME THAT IT HAS BEEN BEING REPORTED?

20 A. I WOULD SAY PROBABLY IN THE ORDER OF 10 TO 15  
21 CASES.

22 BUT I SAY, AGAIN, IT'S BEEN MASSIVELY  
23 UNDERREPORTED BECAUSE OF THE EXTENSIVE INVOLVEMENT OF THE  
24 MEDIASTINUM BY A LUNG PRIMARY, WHICH CLEARLY IS MORE COMMON,  
25 AND SECONDLY INVOLVES THE MEDIASTINUM, AND OFTEN IN A  
26 WIDESPREAD FASHION.

27 SO FOR IT TO BE PUBLISHED, IT HAS TO BE CLEAR, IT  
28 HAS TO BE UNEQUIVOCAL. YOU NEED A LOT OF INFORMATION OR

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0069

1 IT'S SIMPLY GOING TO BE OVERLOOKED AS TO THE SITE OF ORIGIN.

2 Q. YOU SAID 10 OR 15; CORRECT?

3 A. THAT'S WHAT I SAID.

4 Q. AND YOU SAID "MASSIVELY UNDERREPORTED"?

5 A. IT MIGHT BE MASSIVELY UNDERREPORTED.

6 Q. TELL US HOW MANY MASSES HAVE BEEN UNDERREPORTED.  
7 HOW MUCH SHOULD THAT NUMBER BE?

8 A. I DON'T -- I HONESTLY DON'T KNOW. YOU WILL HAVE  
9 TO TURN BACK THE CLOCK AND KNOW WHERE THOSE TUMORS AROSE TO  
10 BE CERTAIN.

11 Q. AND SO MS. HENLEY'S CASE THEN, IF IT'S ONE OF 10  
12 OR 15 OR 20, I MEAN, THAT'S REPORTABLE, ISN'T IT, DOCTOR?

13 MR. OHLEMEYER: I OBJECT. IT'S ARGUMENTATIVE AS  
14 FRAMED, YOUR HONOR.

15 THE COURT: THAT QUESTION IS. I'LL SUSTAIN.

16 MS. CHABER: Q. IF MS. HENLEY HAS A THYMIC  
17 CANCER, DOCTOR, THAT'S SOMETHING THAT WOULD BE HIGHLY  
18 SIGNIFICANT TO REPORT IN THE MEDICAL LITERATURE, WOULDN'T  
19 IT?

20 A. NO, I DON'T THINK SO.

21 Q. WOULDN'T IT BE IMPORTANT, DOCTOR, TO REPORT ALL  
22 OF THESE CASES OF THYMIC CANCER SO THAT THE AMERICAN CANCER  
23 SOCIETY AND THE PEOPLE WHO KEEP STATISTICS ON INCIDENCES OF  
24 CANCER AND WHERE THEY ARE, THEIR SITES ARE, CAN GET IT  
25 RIGHT?

26 A. I THINK PROBABLY NOT, FOR AT LEAST TWO REASONS.  
27 FIRST OF ALL, THE THERAPY IS EXACTLY THE SAME.  
28 SO IT REALLY DOESN'T MATTER IN THE MANAGEMENT.

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0070

1 AND SECONDLY, I CAN'T PROVE THAT THIS TUMOR  
2 ARISES IN THE THYMUS GLAND. I CAN ONLY SAY THAT I HAPPEN TO  
3 THINK IT'S THE MOST LIKELY SITE, BUT I CAN'T PROVE TO A  
4 MEDICAL CERTAINTY THAT IT ARISES WITHIN THE THYMUS GLAND.

5 Q. SO IF I UNDERSTAND THAT CORRECTLY, YOU CANNOT SAY  
6 WITH A REASONABLE DEGREE OF MEDICAL CERTAINTY THAT  
7 MS. HENLEY HAS A THYMIC CANCER; IS THAT CORRECT?

8 A. I CAN'T SAY WITH MEDICAL CERTAINTY THAT THIS  
9 SMALL CELL CARCINOMA IS IN THE THYMUS; THAT IS CORRECT.  
10 Q. AND, DOCTOR, LET ME ASK YOU THE FOLLOWING  
11 QUESTION: DO YOU BELIEVE THAT CIGARETTE SMOKING CAUSES LUNG  
12 CANCER?  
13 A. I BELIEVE CIGARETTE SMOKING IS A PRIMARY RISK  
14 FACTOR FOR THE DEVELOPMENT OF LUNG CANCER.  
15 Q. DOCTOR, DO YOU BELIEVE CIGARETTE SMOKING CAUSES  
16 LUNG CANCER?  
17 A. I'M NOT COMFORTABLE WITH THE TERM "CAUSE," WHICH  
18 WE HAVE MANY FACTORS THAT HAVE BEEN IMPLICATED IN THE  
19 DEVELOPMENT OF A CHRONIC CONDITION AND IN WHICH THERE IS A  
20 BACKGROUND INCIDENCE WITHOUT ANY RISK FACTORS.  
21 SO I BELIEVE MOST PEOPLE, MOST DOCTORS, NOW TALK  
22 IN TERMS OF RISK FACTOR FOR HEART DISEASE, FOR DEVELOPMENT  
23 OF CANCERS, AND I AGREE -- I ABSOLUTELY BELIEVE THAT  
24 CIGARETTE SMOKING IS AN IMPORTANT RISK FACTOR IN THE  
25 DEVELOPMENT OF LUNG CANCER.  
26 Q. NOW, DOCTOR, YOU OPERATE ON PEOPLE AND YOU TELL  
27 FAMILY AND PEOPLE AND PATIENTS THAT THEY HAVE LUNG CANCER;  
28 CORRECT?

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0071

1 A. THAT'S RIGHT.  
2 Q. AND, DOCTOR, I GUESS THEN IF THEY ASK YOU, "WELL,  
3 DOCTOR, I SMOKED ALL MY LIFE. DID THAT CAUSE MY CANCER,"  
4 YOU WOULDN'T BE ABLE TO TELL THEM THAT IT DID?  
5 A. I'D SAY, "POSSIBLY SO. PROBABLY SO. BUT I CAN'T  
6 SAY FOR CERTAIN."  
7 Q. DO YOU BELIEVE THAT CIGARETTE SMOKING IS A  
8 PROBABLE CAUSE OF LUNG CANCER?  
9 A. IT'S A PRIMARY RISK FACTOR. IT'S HIGHLY  
10 ASSOCIATED. IT'S AN IMPORTANT RISK FACTOR, AND PEOPLE  
11 SHOULDN'T SMOKE.  
12 Q. DOCTOR, DO YOU ACCEPT THE SURGEON GENERAL'S  
13 DEFINITION OF THE WORD "CAUSE"?  
14 A. I'M NOT AWARE OF THE SURGEON GENERAL GIVING A  
15 DEFINITION OF THE WORD "CAUSE."  
16 Q. HAVE YOU READ ANY OF THE SURGEON GENERAL'S  
17 REPORTS ON THE HEALTH CONSEQUENCES OF SMOKING?  
18 A. ACTUALLY, I HAVEN'T, NO.  
19 Q. NONE OF THEM?  
20 A. NO, MA'AM. ONLY WHAT'S BEEN REPORTED IN THE  
21 PRESS.  
22 Q. SO YOU HAVEN'T GONE TO ANY OF THE SOURCES, BE IT  
23 THE 1964 REPORT, THE '68 REPORT, THE '79 REPORT, THE '88  
24 REPORT, WHATEVER REPORT? YOU HAVEN'T GONE AND READ A SINGLE  
25 ONE OF THEM?  
26 A. MA'AM, I'M A SURGEON. I HAVEN'T READ THE SURGEON  
27 GENERAL'S STATEMENTS, AND I'VE NEVER READ ANY, INCLUDING  
28 WHAT YOU HAVE IN FRONT OF YOU. I'VE NEVER READ THE SURGEON

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0072

1 GENERAL'S REPORT.  
2 Q. WELL, THE SURGEON GENERAL DEFINES CAUSE AS "A  
3 SIGNIFICANT EFFECTUAL RELATIONSHIP BETWEEN AN AGENT AND AN  
4 ASSOCIATED DISORDER OR DISEASE IN THE HOST."  
5 GIVEN THAT DEFINITION, DOCTOR, DOES CIGARETTE  
6 SMOKING CAUSE LUNG CANCER?  
7 A. CAN YOU READ THAT AGAIN TO ME, PLEASE. I DIDN'T  
8 QUITE UNDERSTAND IT.  
9 Q. SURE. "A SIGNIFICANT EFFECTUAL RELATIONSHIP  
10 BETWEEN AN AGENT AND AN ASSOCIATED DISORDER OR DISEASE IN

11 THE HOST."  
12 A. I HONESTLY DON'T KNOW WHAT THAT MEANS. I THINK  
13 THAT PEOPLE SHOULDN'T SMOKE. I THINK SMOKING IS A RISK  
14 FACTOR FOR THE DEVELOPMENT OF LUNG CANCER.  
15 I WOULD RESERVE, AS A SCIENTIST, THE TERM "CAUSE"  
16 FOR SOMETHING ELSE, THAT THERE ARE MANY RISK FACTORS FOR THE  
17 DEVELOPMENT OF CERTAIN DISEASES.  
18 AND IN THE CASE OF LUNG CANCER, SMOKING IS  
19 CERTAINLY AN IMPORTANT RISK FACTOR, BUT I'M NOT QUITE SURE  
20 WHAT THAT DEFINITION MEANS. I'M SORRY, I DON'T. THAT'S NOT  
21 WHAT I DO.  
22 Q. YOU DON'T DETERMINE CAUSAL SIGNIFICANCE?  
23 A. I DON'T THINK THAT'S MY JOB. PATIENTS COME TO ME  
24 WITH A LUMP IN THEIR CHEST, AND I OPERATE ON THEIR LUNG  
25 CANCER. I'M NOT IN THE BUSINESS OF TELLING THEM EXACTLY HOW  
26 THEY GOT THEIR LUNG CANCER.  
27 I KNOW THEY KNOW THEY SHOULDN'T SMOKE. I TELL  
28 THEM NOT TO SMOKE. I THINK SMOKING IS SOMETHING TO BE  
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0073

1 AVOIDED.  
2 BUT I CAN'T TELL THEM THAT "YOUR CANCER WAS  
3 CAUSED BY SMOKING."  
4 Q. SO THE FOLLOWING STATEMENT BY THE SURGEON GENERAL  
5 IS -- LET ME SEE IF YOU CAN AGREE WITH THIS: "CIGARETTE  
6 SMOKING IS CAUSALLY RELATED TO LUNG CANCER"?  
7 A. I HAPPEN TO DISAGREE WITH THAT.  
8 MS. CHABER: I HAVE NOTHING FURTHER.  
9 THE COURT: MR. OHLEMEYER.

10  
11 REDIRECT EXAMINATION  
12 BY MR. OHLEMEYER: Q. DR. WARREN, DO YOU KNOW  
13 WHETHER THE SURGEON GENERAL THESE DAYS IS EVEN A SURGEON?  
14 A. NO, I DON'T BELIEVE HE IS.  
15 Q. OR SHE?  
16 A. OR SHE.  
17 Q. AS THE CASE MAY BE.  
18 LET ME, BEFORE I ASK YOU A COUPLE OF QUESTIONS,  
19 JUST FOR A HOUSEKEEPING MATTER, WHEN YOU DESCRIBED THE  
20 IMAGES ON 2802, YOU NUMBERED THEM AS 6 PLUS C, 7 PLUS C.  
21 WHAT DOES THE "PLUS C" MEAN?  
22 A. THE CAT SCAN IS DONE INITIALLY WITHOUT ANY DYE OR  
23 CONTRAST. AND THAT'S TO GET A BASELINE.  
24 AND THEN IN THIS CASE, AN INTRAVENOUS WAS PUT IN  
25 THE BACK OF THE RIGHT HAND WITH A SOLUTION, WHICH LOOKS  
26 CLEAR TO YOU AND ME AND LOOKS WHITE UNDER X-RAY, AND THAT  
27 LIGHTS UP THE BLOOD VESSELS.  
28 SO 6 PLUS C IS IMAGE 6 WITH CONTRAST AS OPPOSED  
JUDITH ANN OSSA, CSR NO. 2310

0074

1 TO 6 WITHOUT C.  
2 Q. WAS THE CONTRAST APPLIED BACK WHEN THESE PICTURES  
3 WERE ACTUALLY TAKEN?  
4 A. OH, YES. AND IT LASTS A VERY SHORT PERIOD OF  
5 TIME.  
6 Q. MS. CHABER ASKED YOU SOME QUESTIONS ABOUT  
7 INFLAMMATION AND SUBMUCOSAL MOUNDING.  
8 DO YOU RECALL THOSE?  
9 A. YES.  
10 Q. MY QUESTION TO YOU IS: OF WHAT? INFLAMMATION OF  
11 WHAT? SUBMUCOSAL MOUNDING OF WHAT?  
12 A. WELL, THINK OF THE WINDPIPE AS A PIPE, AND  
13 THERE'S A LINING IN THE PIPE, AND THE LINING OF THE PIPE IS

14 THE MUCOSA, AND THE BOUNDARIES OF THE PIPE, THE SUBSTANCE OF  
15 THE PIPE ARE THE CARTILAGINOUS RINGS. AND IF THERE IS  
16 INFLAMMATION OF THE LINING PORTION, IT WILL LOOK THICKENED,  
17 IT WILL LOOK GLISTENING, BUT IT WON'T NECESSARILY BE RAISED  
18 OFF THE SUPPORT OF THE PIPE.

19 BUT YOU CAN GET TUMOR THAT GROWS IN UNDER THE  
20 LINING, LEAVING THE LINING ALONE. AND THAT IS  
21 CHARACTERISTIC FOR SMALL CELL CARCINOMA.

22 Q. IS THAT SOMETHING THAT YOU CAN SEE ON THE  
23 BRONCHOSCOPE WHEN YOU PERFORM THAT PROCEDURE?

24 A. ABSOLUTELY.

25 Q. AND IS THAT SOMETHING THAT YOU, AS A SURGEON AND  
26 AS A TEACHER, WERE TRAINED TO AND DO TRAIN PEOPLE TO OBSERVE  
27 AND RECORD?

28 A. ABSOLUTELY.

JUDITH ANN OSSA, CSR NO. 2310

0075

1 Q. IS THERE ANY EVIDENCE OF SUBMUCOSAL MOUNDING IN  
2 THE BRONCHOSCOPY THAT WAS PERFORMED IN MS. HENLEY'S CASE?

3 A. NOT BY THE REPORT.

4 Q. DOCTOR, IN FORMING YOUR OPINION IN THIS CASE, YOU  
5 CONSIDERED, AS I UNDERSTAND IT, MS. HENLEY'S SYMPTOMS; IS  
6 THAT RIGHT?

7 A. THAT'S RIGHT.

8 Q. THE X-RAYS?

9 A. YES.

10 Q. THE CT SCANS?

11 A. CORRECT.

12 Q. THE REPORT OF THE BRONCHOSCOPY?

13 A. YES.

14 Q. THE RESULTS OF THE MEDIASTINOTOMY?

15 A. YES.

16 Q. INCLUDING THE PATHOLOGICAL BIOPSY?

17 A. CORRECT.

18 Q. AND THE ATTEMPTS TO DETERMINE WHETHER THERE WERE  
19 OR WERE NOT METASTASES IN OTHER SITES?

20 A. THAT'S RIGHT.

21 Q. IS THAT INFORMATION STATISTICS OR IS THAT  
22 INFORMATION ANATOMY?

23 A. THAT'S ANATOMY.

24 Q. IS IT ANATOMY THAT YOU AS A DOCTOR USE TO COMPARE  
25 AND CONTRAST WHAT YOU KNOW ABOUT DISEASE OR WHAT YOU READ  
26 ABOUT OTHER DISEASE?

27 A. EVERY DAY.

28 Q. IN ORDER TO DETERMINE WHERE A CANCER STARTED IN  
JUDITH ANN OSSA, CSR NO. 2310

0076

1 SOMEBODY'S BODY, DO YOU AS A DOCTOR USE STATISTICS OR DO YOU  
2 USE ANATOMY?

3 A. I USE ANATOMY.

4 Q. IS THAT WHAT YOU'RE TRAINED TO DO?

5 A. YES, SIR.

6 Q. WHAT RESPECT TO THESE X-RAYS, YOU RECALL WHEN  
7 MS. CHABER HAD THE OPPORTUNITY TO TAKE YOUR DEPOSITION?

8 A. YES.

9 Q. YOU DID IN FACT PUT THE X-RAYS ON THE BOX, DIDN'T  
10 YOU?

11 A. YES.

12 Q. AND DESCRIBED YOUR IMPRESSIONS FOR HER?

13 A. YES.

14 Q. WHILE THE COURT REPORTER TOOK IT ALL DOWN?

15 A. YES.

16 Q. YOU MENTIONED -- MS. CHABER MENTIONED A DOCTOR BY

17 THE NAME OF DR. GOULD.  
18 IS HE A PATHOLOGIST?  
19 A. YES, HE IS.  
20 Q. DOES HE WORK AT THE HOSPITAL YOU WORK AT?  
21 A. YES, HE DOES.  
22 Q. IS HE SOMEBODY WHO HAS SPECIAL BACKGROUND,  
23 EDUCATION OR TRAINING IN THE AREA OF CANCER?  
24 A. OH, YES.  
25 Q. DO YOU AND HE WORK TOGETHER AT THE HOSPITAL TO  
26 TREAT PATIENTS AND TO DIAGNOSE THEIR DISEASE?  
27 A. TO DIAGNOSE, BUT NOT TO TREAT. SOMEBODY ELSE  
28 DOES THAT.

JUDITH ANN OSSA, CSR NO. 2310

0077

1 HE'S A PATHOLOGIST. HE TELLS ME WHAT IS SEEN IN  
2 THE PATHOLOGY. BUT HE DOESN'T GIVE ME ANY INPUT IN THE  
3 TREATMENT OTHER THAN WHATEVER INSIGHTS I CAN GATHER FROM  
4 WHAT HE SAYS IT IS.  
5 Q. SO DISCUSSING MEDICAL CASES OR MEDICAL EVIDENCE  
6 WITH DR. GOULD IS SOMETHING THAT'S TYPICAL IN YOUR  
7 DAY-TO-DAY PRACTICE?  
8 A. OH, MANY TIMES A WEEK. BUT HE COULDN'T INTERPRET  
9 AN X-RAY. THAT'S SIMPLY NOT HIS FIELD.  
10 BUT SURGICAL PATHOLOGY IS VERY MUCH HIS FIELD, SO  
11 HIS INTERPRETATION OF THE BIOPSY IS HIS STRENGTH. BUT MINE  
12 IS THE CLINICAL PRESENTATION, THE X-RAYS AND THE MANAGEMENT  
13 OF PATIENTS.  
14 Q. HAVE YOU AND HE DONE RESEARCH AND PUBLISHED THE  
15 RESULTS OF THAT RESEARCH TOGETHER?  
16 A. OH, YES.  
17 Q. HAVE YOU EVER PUBLISHED ANY RESEARCH WITH DR.  
18 HAMMAR?  
19 A. NO.  
20 Q. DR. SAMUEL HAMMAR?  
21 A. NO.  
22 Q. DO YOU KNOW WHETHER ANY OF YOUR RESEARCH IS  
23 PUBLISHED IN DR. HAMMAR'S TEXTBOOK?  
24 A. OH, YES, HE'S REFERENCED OUR WORK.  
25 Q. IN WHAT CHAPTER, DO YOU KNOW?  
26 A. NOT OFFHAND.  
27 Q. DO YOU KNOW WHETHER HE'S REFERENCED ANY OF YOUR  
28 WORK ON THE ISSUE OF NEUROENDOCRINES OR CARCINOMA?

JUDITH ANN OSSA, CSR NO. 2310

0078

1 A. OH, YES.  
2 Q. AND THAT'S A BOOK, AS I UNDERSTAND IT, THAT'S  
3 USED IN MEDICAL SCHOOLS?  
4 A. OH, YES.  
5 Q. DOCTOR, I DON'T -- AND I KNOW IT'S LATE AND I  
6 WANT TO MOVE THIS ALONG. I DON'T WANT BE FACETIOUS. I KNOW  
7 THERE'S NOTHING FUNNY ABOUT ANY OF THIS. IS IT FAIR TO SAY  
8 THAT YOU KNOW LUNG CANCER WHEN YOU SEE IT?  
9 A. IN THE MAJORITY OF TIMES, YES.  
10 Q. ARE YOU REASONABLY CERTAIN THAT THIS TUMOR, MS.  
11 HENLEY'S TUMOR, DID NOT START IN HER LUNG?  
12 A. IT WOULD BE --IT WOULD BE THE MOST UNUSUAL LUNG  
13 CANCER THAT I HAVE SEEN IN A LONG, LONG, LONG TIME. IT JUST  
14 DOESN'T LOOK LIKE A LUNG CANCER.  
15 Q. NOW, WITH RESPECT TO LUNG CANCER THAT GROWS BY  
16 DIRECT SPREAD, SMALL CELL, MS. CHABER ASKED YOU ABOUT THAT.  
17 WHEN LUNG CANCER GROWS BY DIRECT SPREAD, DOES IT LOOK LIKE  
18 WHAT YOU'VE DESCRIBED IN MS. HENLEY'S CASE?  
19 A. NO.

20 Q. YOU WERE ASKED SOME QUESTIONS ABOUT THE DIAGNOSIS  
21 OF SMALL CELL CARCINOMA OF THE THYMUS. AND I BELIEVE YOU  
22 WERE ASKED TO AGREE OR DISAGREE WITH THE STATEMENT THAT IT  
23 MUST BE BASED ON EXCLUSION OF A PRIMARY TUMOR ELSEWHERE.

24 A. THAT'S WHAT IS REPORTED IN THE MEDICAL LITERATURE  
25 TO BE ABSOLUTELY CERTAIN THAT IT IS A THYMIC SMALL CELL  
26 CARCINOMA.

27 TO BE CERTAIN THAT THAT'S WHAT IT IS AND TO BE  
28 ABLE TO WRITE IT UP, I THINK STILL THAT HAS TO BE THE GOLD  
JUDITH ANN OSSA, CSR NO. 2310

0079

1 STANDARD.

2 Q. AND AM I CORRECT THAT IN THAT SAME REFERENCE, THE  
3 STATEMENT IS MADE THAT "DIAGNOSIS OF SMALL CELL CARCINOMA OF  
4 THE THYMUS IS OFTEN MADE RETROSPECTIVELY OR ON POSTMORTEM"?

5 A. YES.

6 Q. WHAT DOES "RETROSPECTIVE" MEAN?

7 A. WELL, IT MEANS AFTER THE FACT, AFTER THE PATIENT  
8 HAS PRESENTED, AFTER THEY HAVE DIED, AFTER YOU HAVE MORE  
9 INFORMATION, SUCH AS A POSTMORTEM EXAMINATION, TO HAVE A  
10 CHANCE, FOR INSTANCE, IN THIS CASE, TO LOOK AT THE LUNGS  
11 VERY CAREFULLY, TO SUBMIT MANY, MANY SECTIONS FROM THE LUNG  
12 TO BE SURE THAT THERE IS NO HIDDEN SITE.

13 Q. IN ESSENCE, IS WHAT YOU CONSIDERED AND WHAT YOU  
14 DESCRIBED FOR US WITH RESPECT TO WHETHER THIS TUMOR STARTED  
15 IN THE LUNG OR SOMEWHERE ELSE ESSENTIALLY HOW YOU WOULD GO  
16 ABOUT MAKING A DIAGNOSIS OF EXCLUSION?

17 A. I'M SORRY. I DON'T UNDERSTAND THE QUESTION.

18 Q. IS THE PROCESS THAT YOU EMPLOYED TO FORM YOUR  
19 OPINIONS IN THIS CASE MORE OR LESS ONE OF A DIAGNOSIS OF  
20 EXCLUSION?

21 A. WELL, YES, IT IS. WE'VE LOOKED I THINK FAIRLY  
22 HARD AT THE LUNG. I SUPPOSE THE ONLY OTHER THING TO HAVE  
23 BEEN DONE WAS TO HAVE TAKEN MULTIPLE BRONCHOSCOPIC  
24 SPECIMENS, WHICH WASN'T DONE BECAUSE NOTHING WAS SEEN THAT  
25 MERITED TAKING ANY SAMPLES. BUT THAT'S VIRTUALLY THE ONLY  
26 THING THAT HASN'T BEEN DONE THAT COULD HAVE BEEN DONE AT THE  
27 TIME, BUT NOTHING WAS SEEN.

28 YOU POSSIBLY COULD HAVE TAKEN SOME BLIND BIOPSIES  
JUDITH ANN OSSA, CSR NO. 2310

0080

1 TO KNOW FOR SURE. BUT IN FACT, IN THE VAST MAJORITY OF  
2 CASES, IT DOESN'T MAKE ANY DIFFERENCE IN THE TREATMENT.

3 SO MANY TIMES A SURGEON OR A BRONCHOSCOPIST, ONCE  
4 THE DIAGNOSIS IS MADE, TO GO BACK AND DETERMINE ABSOLUTELY  
5 WHETHER THERE WAS ANYTHING IN THE LUNG IS SIMPLY AN ACADEMIC  
6 EXERCISE. IT MAY BE IMPORTANT, BUT IT'S NOT IMPORTANT FOR  
7 THE MANAGEMENT OF THAT PATIENT, BECAUSE IT'S GOING TO BE  
8 EXACTLY THE SAME.

9 Q. AND BASED ON EVERYTHING YOU HAVE REVIEWED, YOUR  
10 BACKGROUND, YOUR EDUCATION, YOUR EXPERIENCE, ARE YOU  
11 REASONABLY CERTAIN THIS TUMOR DIDN'T START IN THE LUNG?

12 A. I'M REASONABLY CERTAIN.

13 Q. FINALLY, DOCTOR, YOU MENTIONED TESTIFYING IN  
14 COURT IN THE PAST.

15 HAVE YOU EVER TESTIFIED IN COURT IN A CASE  
16 INVOLVING TOBACCO ISSUES?

17 A. NO.

18 MR. OHLEMEYER: THAT IS ALL I HAVE.

19 THANK YOU, YOUR HONOR.

20 THE COURT: ANYTHING FURTHER?

21 MS. CHABER: JUST A LITTLE BIT.

22

23 RE-CROSS-EXAMINATION  
24 BY MS. CHABER: Q. DOCTOR, YOU SAID YOU MADE  
25 YOUR EVALUATION BASED ON REPORTED SYMPTOMS, BASED ON THE  
26 RECORDS, BASED ON THE X-RAYS, BASED ON THE CT SCANS, BASED  
27 ON THE PATHOLOGY, BASED ON ALL THAT INFORMATION.  
28 IS THAT WHAT YOU JUST SAID TO MR. OHLEMEYER?  
JUDITH ANN OSSA, CSR NO. 2310

0081

1 A. YES.  
2 Q. DOCTOR, ISN'T IT TRUE THAT MS. HENLEY'S DOCTORS,  
3 HER TREATING DOCTORS, THE PEOPLE WHO MADE THE DECISIONS IN  
4 THIS CASE ABOUT WHAT SHE HAD, TOOK INTO CONSIDERATION HER  
5 SYMPTOMS, HER MEDICAL RECORDS, HER CHEST X-RAYS, HER CT  
6 SCANS AND THE PATHOLOGY AND CAME UP WITH A CONCLUSION THAT  
7 SHE HAD LUNG CANCER?  
8 A. SOME OF THEM, BUT NOT ALL OF THEM.  
9 Q. DOCTOR, THE SURGEON WHO OPERATED ON MS. HENLEY  
10 CAME INTO COURT.  
11 YOU UNDERSTOOD THAT; RIGHT?  
12 A. I ASSUMED THAT.  
13 Q. AND HE INDICATED THAT HE CONSIDERED ALL OF THOSE  
14 THINGS, LOOKED AT MS. HENLEY, TOUCHED MS. HENLEY, HAD HIS  
15 HANDS IN HER CHEST AND THAT SHE HAS LUNG CANCER.  
16 WERE YOU AWARE OF THAT?  
17 A. I WAS NOT AWARE OF THAT.  
18 Q. NOW, DOCTOR, WHEN YOU'RE TALKING ABOUT LUNG  
19 TUMORS AND SMALL CELL LUNG TUMORS, THERE CAN BE AN OCCULT  
20 PRIMARY; CORRECT?  
21 A. CORRECT.  
22 Q. AND "OCCULT" MEANS THAT IT'S HIDDEN?  
23 A. THAT'S RIGHT.  
24 Q. AND IN FACT, ONE OF THE REASONS STATED FOR MAKING  
25 THYMIC CANCER A DIAGNOSIS OF EXCLUSION IS THE FACT THAT  
26 SMALL OR OCCULT LUNG PRIMARIES IN THE PRESENCE OF BULKY  
27 MEDIASTINAL DISEASE CAN BE LUNG CANCER?  
28 A. YES.

JUDITH ANN OSSA, CSR NO. 2310

0082

1 Q. AND THEY ALSO INDICATE THAT SMALL CELL CARCINOMA  
2 OF THE LUNG -- SMALL CELL CANCER OF THE LUNG IS KNOWN TO  
3 METASTASIZE MASSIVELY TO THE MEDIASTINUM --  
4 A. THAT'S CORRECT.  
5 Q. -- CORRECT?  
6 A. BUT IN THIS CASE, THE SPREAD TO THE MEDIASTINUM  
7 IS NOT MASSIVE. THERE IS ONE MASS THAT IS 6 CENTIMETERS IN  
8 SIZE, BUT NO OTHER LYMPH NODES. AND THAT IS A VERY LARGE  
9 SIZE FOR AN OCCULT PRIMARY.  
10 Q. IN FACT, THAT CANCER WAS STAGED AS A STAGE 3  
11 CANCER, WASN'T IT, DOCTOR?  
12 A. I WOULD ASSUME SO, IF THEY ASSUMED THAT IT'S LUNG  
13 CANCER, BUT I DON'T.  
14 MS. CHABER: NOTHING FURTHER.  
15 THE COURT: ANYTHING FURTHER?  
16 MR. OHLEMEYER: JUST A QUESTION.  
17

18 FURTHER REDIRECT EXAMINATION  
19 BY MR. OHLEMEYER: Q. DOCTOR, YOU HAD AN  
20 OPPORTUNITY TO READ AND REVIEW THE MEDICAL RECORDS PREPARED  
21 BY DR. HAGEN AND HIS STAFF AT THE TIME THEY PERFORMED THE  
22 PROCEDURES ON MS. HENLEY?  
23 A. YES.  
24 Q. AND READ THE DEPOSITION THAT WAS TAKEN WHERE HE  
25 DESCRIBED HIS WORK IN THE CASE?

26 A. YES.  
27 MR. OHLEMEYER: THAT'S ALL I HAVE.  
28 THANK YOU, YOUR HONOR.  
JUDITH ANN OSSA, CSR NO. 2310

0083

1 THE WITNESS: AND I SEEM TO RECALL THAT HIS  
2 DISCHARGE SUMMARY SAID THAT IT WAS "SMALL CELL CARCINOMA,  
3 PRIMARY SITE UNKNOWN."  
4 MR. OHLEMEYER: Q. THAT'S A MEDICAL RECORD  
5 PREPARED AT THE TIME OF THE TREATMENT?  
6 A. THAT'S RIGHT.  
7 MR. OHLEMEYER: THAT'S ALL I HAVE, YOUR HONOR.  
8 THE COURT: ANYTHING FURTHER?  
9 MS. CHABER: NO.  
10 THE COURT: MAY THE DOCTOR BE EXCUSED?  
11 MS. CHABER: YES.  
12 MR. OHLEMEYER: YES. THANK YOU, DOCTOR.  
13 THE COURT: OKAY. DOCTOR, YOU ARE EXCUSED.  
14 (WITNESS EXCUSED)

15  
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JUDITH ANN OSSA, CSR NO. 2310